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ABSTRACT

Members of the Tennessee Library Association's Technical Services Roundtable examined the extent to which the developing technology of automation is being utilized by the state's libraries. The survey encompassed technical service activities and had a two-fold thrust: to determine how automation is being employed, and to compile an inventory of the software and hardware in use. Findings indicate that 88 of the 174 responding libraries (approximately 50%) are actively engaged in automation. The types of systems operating in the state are diverse, which is deemed to be significant since it may affect the goal of developing the state resource sharing network envisioned in Tennessee's long-range plan for library services. Among the libraries that have implemented or planned automation projects, the highest interests are shown in the following areas: (1) current cataloging (82%); (2) online public access catalogs (52%); (3) multi-functions serials programs (40%); (4) multi-function acquisitions programs (30%); and (5) multi-function circulation program (48%). Following a brief report on the study, the survey instrument and data tables corresponding to each question are presented. A 32-item bibliography lists directories, library automation surveys, and general works on library automation and library technical services. (SD)

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AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN ACADEMIC, PUBLIC, AND SPECIAL LIBRARIES IN TENNESSEE: REPORT OF A SURVEY

by

Ann Denton

and

Ramona M. Mahood

Conducted for the

Technical Services Roundtable of the

TENNESSEE LIBRARY ASSOCIATION

Memphis, Tennessee
MEMPHIS STATE UNIVERSITY
1989

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AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN ACADEMIC, PUBLIC, AND SPECIAL LIBRARIES IN TENNESSEE: A SURVEY REPORT

Members of the Tennessee Library Association's Technical Services Roundtable wanted to examine the extent to which the developing technology of automation is being utilized by the state's libraries. The survey would encompass technical service activities and would have a two-fold thrust: to determine how automation is being employed and to compile an inventory of the software and hardware in use. In April of 1988 the group decided to apply its accumulated funds to support this investigation.

The project began with support from the Roundtable, but the Memphis State University Libraries and Department of Curriculum and Instruction of the College of Education covered additional costs. A large measure of gratitude is extended to these groups for providing the funding as well as to numerous individuals for offering advice and counsel.[1]

Scope and Methodology

The initial task in undertaking this study was to arrive at workable definitions of "technical services" and "automation." Activities in libraries have historically been divided into two groups: (1) readers' services or public services, and (2) technical services. Defining the activities that are appropriate to each group has long engaged the imagination of librarians and library science professors. Definitions proposed over the past 35 years were reviewed in 1984 by Irene P. Godden.[2] Drawing from ideas of the past and opinions of present practitioners, the survey developers chose to include within the broad scope of technical services those activities that relate to acquisitions/collection development, cataloging/bibliographic control, circulation, online public access catalogs, serials, and closely related miscellaneous activities. Automated activities performed directly for library users, such as online database searches or inter-library loans, were excluded from the questionnaire and the survey report.

For purposes of this survey, automation is the utilization of computers to accomplish technical service functions. While definitions were not incorporated in the survey instrument, efforts were made to use terms that are part of the widely accepted jargon. No scale was employed to rank levels of automation from simple to complex. Librarians were asked to describe projects in terms of automation status (implemented; planned within two years, between two to five years, more than five years; or no plans to automate), hardware and software employed, and environment (online, off-line, batch mode, or computer output microform).

In analyzing the responses, similar projects were grouped, a process that required some interpretation due to differences in descriptive terminology. Every effort was made to reflect fairly the automation activities reported by the responding libraries. When respondents did not specify details of automation plans for a particular function, the assumption was made that a "multi-function" approach was intended, e.g. a circulation program that would handle check-out, check-in, overdues, fines, reserves, etc.

The Roundtable agreed that the study should encompass academic, public, and special libraries, and representatives of the three library types were consulted during the construction of the questionnaire. Examples of automation surveys were discovered in a search of library publications, however, no comparable survey of one state's technical service automation activities was found.[3]

A list of 236 libraries was compiled from directories and mailing lists and identified by type.[4] Questionnaires were mailed to library directors in early fall, 1988, and responses were accepted until the spring of 1989. Eliminating a number of libraries that have closed or collections that proved to belong organizationally to other libraries, the population is 224. Responses were received by mail from 163 libraries and by telephone from 11 libraries for a total of 174, 78 percent. Telephone responses were accepted only from those libraries that had not planned or implemented any automation projects. All data in the following report are based on this population, and only answers related to technical service functions are reported.

By type the libraries consist of 64 academic (28 percent), 26 public (12 percent), and 134 special (60 percent). Proportions of responses were very similar for each type (see Table 1). The number of public libraries needs some further explanation. Surveys were sent to four large metropolitan systems: Chattanooga-Hamilton County Bicentennial Library, Knox County Public Library, Memphis-Shelby County Public Library and Information Center, and the Public Library of Nashville & Davidson County; two large independent systems: Kingsport Public Library and Oak Ridge Public Library; twelve regional centers which provide cataloging services for public libraries within their region; and a few local independent libraries.

Table 1
Library Population and Responses

	Population		Responses		
Library Type	# of Libs.	% of Total	# of Libs.	% of Total Responses	% of Resp. by Pop. Type
Academic	64	28	52	30	81
Public	26	12	19	11	73
Special	134	60	103	59	77
Total	224	100	174	100	78

General Findings

The first significant observation is that 88 of the 174 responding libraries, slightly more than 50 percent, have actually implemented at least one automation project in the technical service area. For a few libraries the sole project was utilizing a word processing program or electronic mail service; for most of the 88, however, automation involved using computers for more than one activity.

Another important fact, which can be seen in Table 2, is that only ten libraries that have not already automated at least one activity are planning any automation (nine within the next five years and one in more than five years).

It appears that most libraries with an interest in technical service automation have already initiated the process. If the responding libraries do follow through with present plans, within five years the percentage engaging in automated technical service activities will rise from 50 to 56.

Table 2
Automation Status

Automation Status	Academic # of Libs	Academic % of Type	Academic % of Total	Public # of Libs	Public % of Type	Public % of Total	Special # of Libs	Special % of Type	Special % of Total	Total # of Libs	Total % of Total
Implemented (at least 1 proj.)	35	67	40	16	84	18	37	36	42	88	50
Planned (none implemented)											
0 - 2 years	2			0			6			8	
2 - 5 years	0			0			1			1	
5+ years	0			0			1			1	
Subtotal	(2)	4	25	(0)	0	0	(8)	8	5	(10)	6
No plans to automate	15	29	20	3	16	4	58	56	76	76	44
Total	52	100	—	19	100	—	103	100	—	174	100

Analyzing the automation status by type of library requires some caution. Approximately two-thirds of the academic libraries and one-third of the special libraries have implemented some automation projects (see Table 2). The figure for public libraries, however, is skewed by the fact that regional centers, which provide cataloging services for public libraries within their region, were surveyed rather than the dozens of individual libraries that are members of the centers. According to Tennessee State Librarian and Archivist, Dr. Edwin S. Gleaves, many of the 267 public libraries "...have not reached the state where they can afford any automation and therefore must rely on the [regional centers]."[5] The ambitious cooperative technical service automation project of the regional centers receives further comment in the section on online public access catalogs.

The report of a 1986 Peat Marwick survey describes a maturing process in library automation that parallels the stages of growth in data processing systems of other organizations: from stand-alone applications to integrated systems.[6] In the Tennessee survey there is evidence of such a growth process as systems or programs that were installed at earlier periods are being upgraded with systems which fully integrate the online catalog, circulation, acquisitions, and serials components. Two libraries in the state have systems that integrate all four of these features (Nashville State Technical Institute and Vanderbilt University), and three are currently installing such integrated systems. Seven additional libraries have systems featuring the most common form of integration: the online catalog and circulation functions. Still other

libraries are planning to acquire systems that incorporate two or more of the components.

Cataloging/Bibliographic Control

Sixty-seven libraries are using some form of automation to capture current cataloging records. Of these, 44 libraries identified themselves as members of the OCLC bibliographic utility through one of its affiliate networks (SOLINET, FEDLINK, or VALNET), 25 of which are academic, 4 are public, and 15 are special libraries. Ten of the sixteen public libraries that have automated current cataloging processes report belonging to the Agile II network. Excluding libraries with no automation plans, 82 percent have automated or plan to automate current cataloging procedures.

Twenty-three libraries are presently engaged in the retrospective conversion of holdings records into machine-readable form, and interestingly, of the libraries that have not completed or are not currently engaged in "retrocon," only three report any intention to begin the process. Evidently those libraries with definite plans to automate activities have pursued "retrocon" at an early stage in the process.

Acquisitions/Collection Development

More libraries are automating particular aspects of acquisitions than are utilizing multi-function programs. A number have written custom programs or have modified off-the-shelf programs for purchase order preparation, budget/fund accounting, and other assorted functions. Only seven academic and two special libraries currently have multi-function programs, but nineteen libraries are planning to utilize multi-function acquisitions programs within the next five years (nine academic, three public, and seven special). Excluding libraries with no automation plans, 30 percent have either implemented or planned a multi-function acquisitions program.

Acquisitions system vendors and their institutional affiliates that were identified in the survey responses are CLSI, Pentecostal Resource Center, Cleveland; Geac, University of Tennessee, Knoxville; OCLC, King College, Bristol and Chattanooga State Technical Community College; SIRSI, Nashville State Technical Institute; and Sydney, Buckman Laboratory, Inc., Memphis. Installation is scheduled within the next few months for systems by Data Research Associates (DRA) at Memphis/Shelby County Public Library and Information Center and Tennessee Technological University, Cookeville; Georgetown University Medical Center at the University of Tennessee Center for Health Sciences, Memphis; and Unisys at Middle Tennessee State University, Murfreesboro.

Libraries that have invested in microcomputers and modems are beginning to take advantage of the new software for online transmission of orders for library material. Twelve libraries (six academic, one public, and five special) are currently using specialized communications programs for this purpose. Some of these programs are offered free from book jobbers. An additional eleven libraries plan to place orders with this relatively new technology in the next five years.

Serials

Many Tennessee librarians appear to have adopted a wait-and-see attitude about automated multi-function serials systems. Only five academic and two special libraries presently utilize multi-function systems, while 33 report planning for one in the future (27 within five years). Excluding libraries with no automation plans, 40 percent have either implemented or planned a multi-function serials program.

Vendors of the multi-function systems that were identified in the survey responses are NOTIS (software only), Vanderbilt University, Nashville; OCLC, Martin Marietta Energy Systems, Oak Ridge; and VTLS, University of Tennessee, Chattanooga. In addition, the following systems are scheduled for installation within the next few months: CLSI's Perline, Memphis State University; Unisys's PALS, Middle Tennessee State University, Murfreesboro; DRA's ATLAS, Memphis/Shelby County Public Library and Information Center and Tennessee Technological University, Cookeville; and Georgetown University Medical Center's LIS, University of Tennessee Center for the Health Sciences.

While awaiting developments in the multi-function system approach, libraries have discovered other ways to use microcomputers to improve or speed up the processing of serials. Some serials tasks for which database management, spreadsheet, and word processing programs are being employed by libraries in Tennessee are claims, coordination of intra-library claim reports, bindery lists, holdings/union lists, want lists, accounting and payment records, cost databases, MARC conversion, and routing.

Microcomputers with modems and communications programs are being used by serials specialists to access the extensive databases of large periodical vendors. Six libraries (five academic and one special) have taken advantage of such arrangements, and three more (one academic and two special) plan to make use of the service within 24 months.

Circulation

Sixteen of the responding libraries have either installed or have contracted to install some type of multi-function circulation program: ten academic, two public, and four special. An additional 33 libraries are planning similar systems: sixteen academic, two public, and fifteen special. Excluding the libraries with no automation plans, 48 percent of all three types of libraries have either implemented or are planning for a multi-function circulation program. Again excluding the libraries with no automation plans, 65 percent of the academic libraries have implemented or are planning for a multi-function circulation program, compared with 42 percent of the special libraries and 25 percent of the public libraries, reflecting a higher priority on circulation systems by academic libraries than either public or special libraries.

When Tennessee libraries automate circulation processes with the aid of turnkey vendors, the system is most often integrated with an online catalog. Choosing to incorporate additional components to the integrated system appears to be based on factors peculiar to the library.

Of all the turnkey circulation systems available to libraries, no one firm dominates the Tennessee market. The fourteen libraries identifying system vendors use a total of eleven different systems: CLSI's LIBS 100, Memphis State

University and Pentecostal Resource Center, Cleveland; Dynix, Kingsport Public Library; Geac, University of Tennessee, Knoxville; Georgetown University Medical Center's LIS, University of Tennessee Center for the Health Sciences, Memphis; NOTIS (software only), Vanderbilt University, Nashville; OCLC's LS/2000 Belmont College, Nashville and Martin Marietta Energy Systems, Oak Ridge; SIRSI Corporation's Unicorn, Nashville State Technical Institute; Sydney Development Corporation, Buckman Laboratory, Inc., Memphis; Unisys's PALS, Middle Tennessee State University, Murfreesboro; VTLS, University of Tennessee, Chattanooga; and DRA's ATLAS which is to be installed at Tennessee Technological University, Cookeville, and Memphis/Shelby County Public Library and Information Center; at the latter it is replacing an LS/2 system based on the former DataPhase system.

Online Public Access Catalogs

Twelve of the academic, public, or special libraries responding to the questionnaire presently operate some type of online public access catalog (OPAC). Within five years, however, an additional 27 libraries (fourteen academic, two public, and eleven special) are planning for such a catalog. Excluding libraries with no automation plans, a total of 52 percent have either implemented or planned an online public access catalog. In Table 3 are listed the libraries with operational OPACs, the year in which the catalog became operational, and the respective systems.

Table 3
Libraries with Online Public Access Catalogs

Libraries	OPAC Systems
Academic:	
Belmont College, Nashville (1986)	LS/2000 (OCLC)
Chattanooga State Technical Comm. College (1987)	BiblioFile (Lib.Corp.)
Memphis State University (1984)	LIBS 100 (CLSI)
Nashville State Technical Institute (1984)	Unicorn (SIRSI)
University of Tennessee, Chattanooga (1984)	VTLS (VTLS)
University of Tennessee, Knoxville (1987)	Geac (Geac)
Vanderbilt University, Nashville (1985)	NOTIS (NOTIS Systems, Inc.)
Volunteer State Community College, Gallatin (1986)	BiblioFile (Lib. Corp.)
Public:	
Kingsport Public Library (1987)	Dynix (Dynix, Inc.)
Special:	
Martin Marietta Energy Systems, Oak Ridge (1983)	LS/2000 (OCLC)
Oak Ridge Associated Univ., MERT Division (1988)	(custom program)
@Tenn. Lib. for the Blind & Physically Handicapped, Nashville (1983)	TACS (custom program)

@A public library serving a special clientele

To the above list may be added the following four libraries (two academic, one public, and one special) that have signed contracts for and are presently installing systems: Middle Tennessee State University, Murfreesboro, PALS by

Unisys; Tennessee Technological University, Cookeville and Memphis/Shelby County Public Library and Information Center, ATLAS by Data Research Associates; and University of Tennessee Center for the Health Sciences, Memphis, LIS by Georgetown University Medical Center.

The diversity of OPAC systems chosen by Tennessee's libraries is noteworthy. In contrast to states where professional associations or government agencies exerted pressure for compatibility and networking, Tennessee librarians acted independently to choose systems that meet needs and budgets. Of the nine library system vendors with the largest market share for total installed systems in all years, seven have systems operating or being installed in Tennessee.[7]

Facilitating inter-library cooperation through automation is a concept outlined in Tennessee's Long-Range Program for Library Services and Development, adopted in 1989.[8] Anticipating this plan and its goals, the State Library and Archives and the regional public libraries decided to adopt a common system and create a joint database. Through the Agile II system from Autographics each library is contributing cataloging records to a machine-readable database that will be put into compact disc (CD-ROM) format. The joint databases will be called the IMPACT system, and copies will be located in the State Library and Archives and the Area Resource Centers of the four metropolitan libraries. This CD-ROM database is actually an automated catalog. However, neither in the State Library nor the Area Resource Centers is it planned to have sufficient equipment or discs for direct public access to the catalog. For the purpose of this survey, the IMPACT system is considered a separate category from the automated catalogs planned for public use.

The twelve libraries with online public access catalogs (OPACs) were asked questions about system features. Not all libraries responded to every question, hence the occasional disparity in numbers. Nine of the databases have full MARC records, one has partial MARC, and one contains both MARC and non-MARC. Eleven have more than two-thirds of the library's cataloging records in machine-readable form, while one has between 34 and 66 percent. In Table 4 are listed various types of cataloging records and the proportion of responding libraries that include these records in the OPAC database.

Table 4
Cataloging Records in OPAC Databases

Record Type	Percentage of Libraries
Monographs	100
Serials (non-periodical)	100
Audio-visuals	100
Serials (periodical)	70
Music	60
Computer files	50
Government documents, selected titles	40
Archives, manuscripts	40
Order/in process records	40
Government documents, all titles	30
Major microform sets	30
Other	10

Basic retrieval capabilities of online catalogs parallel the card catalog with author, title, uniform title, subject, and series being the most common access points. Eleven of the respondents also have the option of Boolean searching, and ten can search by International Standard Book Number (ISBN) or International Standard Serial Number (ISSN). Some systems permit searches by keyword, Library of Congress Card Number, and classification number. Eight of the OPACs have a "browse" index. Other important enhancements to the online systems include authority control and the capability of making global changes to cataloging records, both available on eight systems in Tennessee libraries. Two of the systems (Dynix and VTLS) have the capacity to automatically verify names and subjects as cataloging records are added to the database. Eight of the libraries have provided printers for public use with the OPAC. Seven of the twelve libraries with OPACs offer users dial-up access to the database.

When online catalogs are inoperable, libraries use a variety of sources to "backup" the catalog. Some respondents list more than one alternative. Seven libraries report reliance on a shelf list. Six libraries depend on a card catalog which has been "closed" and two libraries on a partially maintained card catalog. Two libraries with an online public access catalog also continue to maintain a complete card catalog.

Online catalogs in Tennessee are evidently proving to be quite reliable. Eight libraries report that the catalog is "down" two percent or less of the time; two report the down-time as two to five percent; and one reports six to ten percent. Four libraries identify the major cause of service interruption as hardware failure, three rank software failure first, followed by two with system maintenance, one environmental conditions, and one telecommunications.

Libraries with OPACs were asked whether a reorganization of technical service personnel or activities has occurred because of the implementation of the online catalog. More than one response was permitted. Five libraries report that there has been no significant change, five that staff members have been reassigned to other tasks or other departments, three that the number of staff members has increased, three that a new department has been created for systems/automation, one that more departments exist, and one that the number of staff members has decreased. No libraries indicated there were fewer departments or that new departments were created for "copy" cataloging.

Miscellaneous Automation Activities

Electronic mail, a newer communication option, is being used by 23 libraries, of which fifteen are special libraries. Medical libraries constitute the largest group of users.

The relatively new CD-ROM technology has been quickly adopted by library system vendors and publishers of reference material. An index with particular application to technical service activities, Books in Print Plus, recently became available on CD-ROM. Three academic libraries are presently using this product.

A question was posed in the survey as to whether automation capabilities prompted new or facilitated earlier inter-library cooperative technical service projects. Several responses mentioned the Tennessee Union List of Serials project that began in 1987. Sixty libraries currently participate in this project that is funded by the Tennessee State Library and Archives.

Sixty-seven libraries indicate no equipment is shared with another library, but nine libraries do share a database, and three share staff members.

Twenty-four libraries conducted cost studies before automation projects were undertaken, but only ten report conducting cost studies after the automation installation was completed. The most frequently mentioned studies are average cost of processing a book and comparative cost of in-house versus OCLC cataloging. Others studies are cataloging backlogs, manual circulation systems, catalog card filing, and telecommunications.

Sixteen libraries use some type of machine-readable code to identify both library users and library material. Bar codes are used by eleven libraries, optical character recognition codes (OCR) by four, and another code is used by one.

"Improving efficiency" is the reason most frequently cited for automating technical service functions, followed by (in descending order of frequency) "speed up service," "increase ways to locate information," "permit access to holdings data from outside library," "reduce costs," and "suggestions from library's governing authority." Other pertinent comments from respondents included "urged by State Library," "part of a larger system that made the decision," "PR", i.e. public relations, "resource sharing," "system-wide control and access to information," and "limited staff."

Considering the complexity and sophistication of the hardware and software available in so many Tennessee libraries, the issue of staff automation expertise is crucial. The primary source of staff knowledge of automation has been on-the-job training. Other avenues for obtaining the required technical knowledge are (in descending order of importance) reading/informal study; network seminars; staff members' personal experience; formal course work; non-network, non-governmental agency seminars; governmental agency seminars; and audio-visual tutorials.

Reasons for Not Automating

Of the 76 libraries planning no automation of technical service functions, fifteen are academic, three public, and 58 special. Sixty-five cite one or more reasons for this decision. "Small size" is the most frequent response, mentioned by thirty-three of the special libraries. Academic and special libraries list a "lack of start-up funds" as the primary factor in not automating, followed by a "lack of operating funds." Primarily special libraries report that "manual systems have proven adequate" and that automation is "not cost efficient." Of the fifteen libraries citing a lack of staff with automation skills, twelve were special libraries. Representatives of six special libraries express the opinion that automation is "not suitable for specialized collections."

Inventory

The inventory of software, hardware, networks, and systems was compiled to serve as a practical guide for librarians. Changes occur so rapidly in the automation environment that no equipment inventory would be accurate for long. However, inasmuch as the financial investment in hardware and software is substantial, librarians want to make informed business decisions. This inventory will make it possible to contact someone having first-hand experience

with equipment and programs. Librarians were asked to give permission to identify their libraries in such a listing. In the inventory and library list, printed in full in Appendix A, the libraries granting permission (83 percent) are identified by number. Holdings of libraries not wishing to be identified are shown as "XXX."

Software programs are listed by type of application. When available the distributor of programs or equipment has been supplied. As with the OPACs, there is a wide range of both software and hardware.

Major commercial database management, spreadsheet, and word processing programs prove, not surprisingly, to be popular in libraries also: dBASE (reported by 36 libraries), Lotus 1-2-3 (27), and WordPerfect (23). Many special applications programs are being used in Tennessee for acquisitions, cataloging, circulation, communications, and serials.

A small representation of equipment from Apple Computer Inc. is owned by academic and special libraries, but microcomputers using the MS-DOS operating systems predominate in all types of libraries.* The larger and more complex systems are run on mainframes and minicomputers. The manufacturer cited most frequently is Digital Equipment Corporation, followed by IBM and Data General. The extent to which the hardware and software is being utilized could not be gauged.

Summary

The fact that slightly more than 50 percent of the responding libraries are actively engaged in automation is significant. The diversity of systems operating in the state is also of importance--especially as it may affect the goal of developing the state resource-sharing network envisioned in Tennessee's long-range plan for library services.

Analysis of this survey shows priorities established by libraries for technical service automation. Among the libraries that have implemented or planned automation projects, the highest interest is shown in the following areas: current cataloging, 82 percent; online public access catalog, 52 percent; multi-function circulation program, 48 percent; multi-function serials program, 40 percent; and multi-function acquisitions program, 30 percent.

As the amount of material published each year increases and library collections continue to grow, pressure is exerted on librarians to find new, better, and faster ways to acquire, catalog, process, and circulate material. Automation may not be appropriate for every library, but it is obviously the method many Tennessee libraries are choosing in an attempt to deal with these contemporary issues.

REFERENCES

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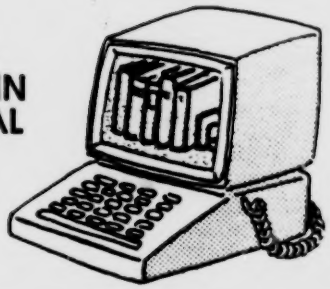
9. MS-DOS is a registered trademark of the Microsoft Corporation.

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN ACADEMIC, PUBLIC, AND SPECIAL LIBRARIES IN TENNESSEE: A SURVEY



The purpose of this study is to identify planned or implemented computer projects in acquisitions, cataloging, circulation, and serials. Please complete the survey soon...by November 4, 1988, if possible. A stamped, self-addressed envelope is included for your convenience. Should the envelope get misplaced, please mail the completed questionnaire to: Ann Denton/ Acquisitions Department/ Memphis State University Libraries/ Memphis, TN 38152. We will appreciate your cooperation.

Please sign below and indicate if you authorize the listing of your library's name and automation status (including hardware/software) in the survey report and in possible publications in professional journals.

Library _____ Date _____

Signature _____ Position _____

☐ yes, permission given ☐ no, permission not given Phone ( ) -

I. BASICS OF TECHNICAL SERVICE AUTOMATION

A. Automation of technical service projects is planned/ in progress/ completed:

☐ yes ☐ no

If "yes," go to Question II.A.; if "no," go to next question.

B. Reasons for not automating technical service functions (check all that apply):

☐ present manual system proven adequate	☐ funds for start-up not available	☐ funds for operating costs not available
☐ automation not suitable for specialized collection	☐ avoid possibility of displacing staff	☐ insufficiently familiar with automation options
☐ trained staff not available	☐ waiting for prices to come down	☐ waiting for improvements in hardware/software
☐ not cost efficient	☐ small library size	☐ other _____

If you responded to Question I.B., stop here and return the questionnaire. You are welcome to make any comments or observations.

II. TECHNICAL SERVICE AUTOMATION PROJECTS Identify small independent tasks as well as large multi-function systems. The following chart provides responses to help describe projects in terms of status, hardware, software, and environment. Use the numbers from the chart to fill in the blanks, or write out your own answers. Exclude projects using electronic memory typewriters. If more space is needed, attach additional sheets of paper.

STATUS	HARDWARE	SOFTWARE	ENVIRONMENT
1 - automated now 2 - automation planned within 24 months 3 - automation planned in 2 to 5 years 4 - automation planned in more than 5 yrs 5 - no plans to automate (leave rest of line blank)	1 - mainframe computer/ terminal 2 - minicomputer/ terminal 3 - microcomputer 4 - microcomputer/CD-ROM 5 - undecided (leave rest of line blank)	1 - off-shelf program, e.g. WordPerfect 2 - off-shelf program customized by staff 3 - custom program by library staff 4 - custom program by outside agency 5 - turnkey system from vendor (identify) 6 - network (identify)	1 - online/real time 2 - batch mode/off-line 3 - online/batch mode combination 4 - COM (computer output microfiche) 5 - COM (computer output microfilm)

	STATUS	HARD WARE	SOFT WARE	ENVIRON MENT	FIRST YEAR
A. ACQUISITIONS/COLLECTION DEVELOPMENT					
Example Online order transmission program (XYZ Co.)	2	3	4	2	1989
B. CATALOGING/BIBLIOGRAPHIC CONTROL (include current cataloging, retrospective conversion, COM catalog, etc.)					
Example Current cataloging (OCLC)	1	1	5	1	1986
C. CIRCULATION					
D. ONLINE PUBLIC ACCESS CATALOG (identify components of integrated systems, no. of terminals in use, name of turnkey vendor)					
E. SERIALS					
F. OTHER (electronic mail, inventory, etc.)					

If your technical service automation projects are all in the planning stage, go to Section V on page 4.

III. TECHNICAL SERVICE AUTOMATION GENERALITIES (answer only for implemented projects):

A. Hardware (manufacturer, model, operating system, number in use):
1. mainframe _____
2. minicomputer _____
3. microcomputer _____
4. dedicated terminal _____

B. Software programs, e.g. Appleworks (list all that apply):
1. word processing _____
2. spreadsheet _____
3. database management _____
4. other (specify) _____

C. Machine-readable codes used for identification:
1. users (check one): ☐no ☐yes, bar codes ☐yes, OCR ☐yes, other
2. material (check one): ☐no ☐yes, bar codes ☐yes, OCR ☐yes, other

D. Member of bibliographic utility network:
☐no ☐yes, OCLC/SOLINET ☐yes, other _____

E. Automation accomplished with the cooperation of other libraries (excluding bibliographic utility networks; check all that apply):
☐no ☐yes, equipment shared ☐yes, staff shared ☐yes, database shared

F. Automation capabilities have prompted new **inter-library** cooperative technical service projects? ☐no ☐yes (identify) _____

G. Automation capabilities have facilitated earlier **inter-library** cooperative technical service projects? ☐no ☐yes (identify) _____

H. Cost studies of technical service activities done before/after automation?
☐before, no ☐before, yes (identify) _____
☐after, no ☐after, yes (identify) _____

I. Reasons for automation (check as many as were **important** concerns):

☐reduce costs	☐improve efficiency	☐speed up service
☐permit access to holdings data from outside library	☐suggestions from library's governing authority	☐increase ways to locate information
		☐other _____

J. Staff automation expertise gained through (check all that apply):

☐formal coursework	☐on-the-job training	☐audio-visual tutorials
☐seminars/workshops by networks	☐seminars/workshops by gov't agencies	☐seminars/workshops by other agencies
☐staff members' personal experience	☐reading/informal study	☐other _____

If your library does not have an online catalog, go to Section V on page 4.

IV. ONLINE CATALOG SPECIFICS (answer only if your library has an **online** catalog):

A. Cataloging records based on: ☐full MARC ☐partial MARC ☐non-MARC

B. Types of cataloging records included in online catalog (check as many as apply):

☐monographs ☐serials (non-periodical) ☐serials (periodical)

☐audio-visuals ☐gov't docs (selected titles) ☐gov't docs (all titles)

☐music ☐computer files ☐archives, manuscripts

☐major microform sets ☐order/in-process records ☐other_____

C. Percentage of library's total number of cataloging records in machine-readable form (as of June 30, 1988): ☐1 - 33% ☐34 - 66% ☐67 - 100%

D. Retrieval capabilities of your online catalog (check as many as apply):

☐author index ☐title index ☐subject index ☐ISBN/ISSN index

☐LCCN index ☐uniform title ☐call no. index ☐Boolean logic

☐keyword ☐series index ☐browse index ☐other_____

E. Features of your online catalog (check as many as apply):

☐authority control ☐network access ☐dial-up access

☐automatic verification of incoming entries for names/subjects ☐global change capability ☐printers for public use

☐Other_____

F. Online catalog backed up by (check all that apply): ☐CD-ROM ☐shelf list

☐fully maintained card catalog ☐partially maintained card catalog ☐closed card catalog

☐COM catalog ☐COM register/index ☐other_____

G. Percentage of time online catalog is "**down**" during hours library is regularly open (check approximate percentage during January-June 1988):

☐less than 2% ☐2 - 5% ☐6 - 10% ☐greater than 10%

H. Causes of service interruptions of online catalog (rank all that apply; 1 equals the most frequent cause):

___hardware failure ___software failure ___system maintenance

___environmental conditions ___staffing problems ___other_____

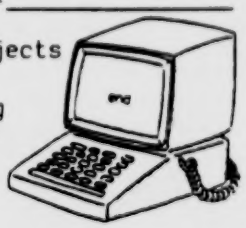
I. Reorganization of technical service personnel/activities resulting from online catalog (check all that apply):

☐staff reassigned to other tasks/depts. ☐new dept. created for systems/automation ☐new dept. created for "copy" cataloging

☐more departments ☐fewer departments ☐no significant changes

☐more employees ☐fewer employees ☐other_____

V. CONCLUSION On the back of this page, describe any automation projects or activities which have not been covered or sufficiently explained through the questions--or make suggestions or observations pertaining to this study. Please return the questionnaire by November 4, 1988.



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AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I: CODING USED IN QUESTIONNAIRE AND REPORT TABLES
June 6, 1989, Page 1

A. **Library Sub-Type**
- **1. - Academic - Institutions with many graduate programs**
- **2. - Academic - Primarily four year undergraduate institutions**
- **3. - Academic - Primarily two year institutions (including proprietary schools)**
- **4. - Public - Metropolitan libraries**
- **5. - Public - Regional libraries, plus Oak Ridge Public Library**
- **6. - Public - Local libraries unaffiliated with regional systems**
- **7. - Special - Collections serving particular organizations or groups of users.**

B. Special Library Sub-Type
- 1 - Medical
- 2 - Law
- 3 - Business
- 4 - Religion/Church
- 5 - Museum
- 6 - Newspaper
- 7 - Government/Military
- 8 - Planning
- 9 - Other

C. Geographical Location Within State: 1 - East, 2 - Middle, 3 - West

D. Vendors of Library Automation Products
- 10 - Auto-Graphics (Agile II)
- 15 - Baker & Taylor (Acquire & Libris)
- 16 - Ballen
- 25 - Blackwell/North America
- 27 - Bowker (Books in Print Plus)
- 30 - CLSI (LIBS 100)
- 32 - Data Research Associates (ATLAS)
- 35 - Data Trek, Inc.
- 36 - DYNIX, Inc.
- 37 - EBSCO (EBSCONET)
- 40 - Faxon (LINX)
- 45 - Geac Computers, Inc.
- 46 - Georgetown Univ. Med. Ctr. (LIS)
- 47 - Ingram Lib. Service (Flashback)
- 62 - Library Corporation (Bibliofile)
- 64 - Login Brothers
- 67 - Majors
- 70 - Marcive
- 73 - Matthews
- 75 - Midwest Lib. Serv.(ACQcess)
- 77 - NOTIS Systems, Inc. (NOTIS)
- 79 - OCLC (LS/2000 Local Systems)
- 80 - OCLC (Network)
- 85 - Readmore (REMO)
- 86 - Rittenhouse
- 87 - SIRSI Corp. (Unicorn)
- 90 - Sydney Development Corp.
- 93 - Unisys (PALS)
- 95 - Valnet (Veterans Adm. Library Network)
- 98 - VTLS (Virginia Tech Library System)

E. Project Descriptions

STATUS

1 - automated now
2 - automation planned within 24 months
3 - automation planned in 2 to 5 years
4 - automation planned in more than 5 yrs
5 - no plans to automate (leave rest of line blank)

HARDWARE

1 - mainframe computer/terminal
2 - minicomputer/terminal
3 - microcomputer
4 - microcomputer/CD-ROM
5 - undecided (leave rest of line blank

SOFTWARE

1 - off-shelf program e.g. WordPerfect
2 - off-shelf program customized by staff
3 - custom program by library staff
4 - custom program by outside agency
5 - turnkey system from vendor (identify)
6 - network (identify)
7 - vendor supported

ENVIRONMENT

1 - online/real time
2 - batch mode/offline
3 - online/batch mode combination
4 - COM (computer output microfiche)
5 - COM (computer output microfilm)

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I: CODING USED IN QUESTIONNAIRE AND REPORT TABLES
June 6, 1989, Page 3

F. Participating Libraries

This list includes only those libraries granting permission to list their names and automation status. The holdings of libraries not wishing to be identified are represented by XXX.

NUM	LIBRARIES
009	American Baptist College, Nashville
012	Aquinas Junior College, Nashville
021	Austin Peay State University, Clarksville
030	Baptist Memorial Hospital McGehee Library, Memphis
036	Belmont College, Nashville
048	Bristol College, Bristol
051	Bryan College, Dayton
057	Buckman Laboratory, Inc., Memphis
060	Campbell Foundation Library, Memphis
063	Caney Fork Regional Library, Sparta
066	Carson-Newman College, Jefferson City
069	Center for Southern Folklore, Memphis
075	Chattanooga State Technical Community College
081	Chattanooga-Hamilton County Library, Chattanooga
093	Christian Brothers College, Memphis
099	Cleveland State Community College, Cleveland
105	Columbia State Community College, Columbia
108	Combustion Engineering, Inc., Chattanooga
114	Country Music Foundation, Nashville
123	Cumberland Museum & Science Center, Nashville
126	Cumberland University, Lebanon
135	David Lipscomb University, Nashville
138	Davis Homes Library, Morristown
144	Disciples of Christ Historical Library, Nashville
150	Draughon's Junior College, Knoxville
153	Dyersburg State Community College, Dyersburg
159	East Tenn. Baptist Hospital Library, Knoxville
162	East Tenn. State Univ. Medical Lib., Johnson City
165	East Tenn. State Univ., Johnson City
180	First Baptist Church, Murfreesboro
192	Forked Deer Regional Library Center, Halls
198	Fort Sanders Regional Medical Center, Knoxville
201	Free Will Baptist Bible College, Nashville
216	Harding Graduate School of Religion, Memphis

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I: CODING USED IN QUESTIONNAIRE AND REPORT TABLES
June 6, 1989, Page 4

NUM	LIBRARIES
222	Highland Rim Regional Library Center, Murfreesboro
225	Hiwassee College, Madisonville
228	Holiday Corporation, Memphis
231	Holston Valley Hospital & Med. Ctr., Kingsport
246	Jackson State Community College, Jackson
258	John A. Gupton College Library, Nashville
264	Johnson City Press
267	Johnson National Historic Site, Greeneville
270	King College, Bristol
273	Kingsport Public Library, Kingsport
282	Knox County Public Library System, Knoxville
285	Knoxville Business College, Knoxville
288	Knoxville College Alumni Library, Knoxville
291	Knoxville Journal
294	Knoxville News-Sentinel
297	Knoxville/Knox Co. Metropolitan Planning Library
303	Lane College, Jackson
306	Lawrence County Public Library, Lawrenceburg
309	Leaf-Chronicle, Clarksville
312	LeBonheur Childrens Medical Center, Memphis
324	Martin Marietta Energy Systems, Oak Ridge
327	Martin Methodist College, Pulaski
330	Maryville College, Maryville
333	Meharry Medical College, Nashville
336	Memphis Botanic Garden
339	Memphis Brooks Museum of Art
345	Memphis Mental Health Institute
348	Memphis Pink Palace Museum
351	Memphis State University
354	Memphis State University Law School
357	Memphis Theological Seminary
360	Memphis/Shelby County Bar Association, Memphis
363	Memphis/Shelby County Office of Planning & Dev.
369	Memphis/Shelby County Public Library
372	Methodist Hospital Medical Library, Memphis
378	Mid-America Baptist Theological Seminary, Memphis
381	Middle Tenn. State University, Murfreesboro
402	Nashville Banner
405	Nashville State Technical Institute

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I: CODING USED IN QUESTIONNAIRE AND REPORT TABLES
June 6, 1989, Page 5

NUM	LIBRARIES
408	Nashville/Davidson Co. Metropolitan Health Dept.
417	Nolichucky Regional Library, Morristown
426	Oak Ridge Assoc. Univ., Medical Library
429	Oak Ridge Assoc. Univ., MERT Division
438	Pellissippi State Tech. Comm. College, Knoxville
441	Pentecostal Resource Center, Cleveland
444	PT Boats Inc. Archives & Tech. Info., Memphis
447	Public Library of Nashville & Davidson County
450	Reelfoot Regional Library Center, Martin
453	Rhodes College, Memphis
459	Rocky Mount Historical Association, Piney Flats
465	Saint Joseph Hospital, Memphis
468	Saint Jude Children's Research Hospital, Memphis
480	Scarritt Graduate School, Nashville
486	Semmes-Murphey Clinic, Memphis
495	Shiloh Regional Library, Jackson
498	Southern Bapt. Convention, BSSB, Nashville
501	Southern Bapt. Convention, Host. Comm., Nashville
504	Southern College of Optometry, Memphis
507	Southern College, Collegedale
516	State Technical Institute at Memphis
519	Students Museum Library, Knoxville
522	Tenn. Botanical Gardens & Fine Arts Ctr., N'ville
528	Tenn. Dept. of Transportation, Nashville
531	Tenn. Lib. for the Blind & Phys. Hand., N'ville
534	Tenn. Public Service Commission, Nashville
546	Tenn. State Library and Archives, Nashville
558	Tenn. Technological University, Cookeville
561	Tenn. Temple University, Chattanooga
576	Trevecca Nazarene College, Nashville
579	Tri-Cities State Technical Institute, Blountville
582	Tusculua College, Greenville
594	TVA Technical Lib. System, Knoxville & Chattanooga
597	U.S. Army Corps of Engineers, Memphis District
600	U.S. Dept. of Comm NOAA, Atmos.Turb.Lab., Oak Ridge
603	U.S. Dept. of Def. Industrial Plant Equip Ctr., Mps
609	U.S. Navy. Naval Air Station, Millington
612	U.S. Navy. Regional Medical Center, Millington
615	U.S. Veterans Adm. Medical Center, Memphis

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I: CODING USED IN QUESTIONNAIRE AND REPORT TABLES
June 6, 1989, Page 6

NUM	LIBRARIES
624	U.S. Veterans Adm. Medical Center, Nashville
627	Union University, Jackson
633	United Paperworkers International Union, Nashville
636	Univ. of Tenn. Ctr. for Industrial Serv., N'ville
639	Univ. of Tenn. Ctr. for the Health Sciences, Mphs
648	Univ. of Tenn. Municipal Tech Adv Serv., Knoxville
657	Univ. of Tenn., Chattanooga
660	Univ. of Tenn., Knoxville
663	Univ. of Tenn., Martin
666	Univ. of the South, School of Theology, Sewanee
675	Upper Room Devotional Library, Nashville
684	Vanderbilt Univ., Nashville
687	Volunteer State Community College, Gallatin
696	Warioto Regional Library Center, Clarksville
702	Watkins Institute, Nashville
705	West Tenn. Historical Society, Memphis
708	Western Mental Health Inst., Levy Prof. Lib., Bolivar

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A1: LIBRARIES: TYPE, % RESPONSE, % AUTOMATION IMPLEMENTED, PLANNED
June 6, 1989, Page 1

CODING FOR TABLE IA:

Library Type: Academic, Public, or Special
Lib Sub-Typ: Library Sub-Type, See Table I (A)
Spe Sub Typ: Special Library Sub-Type, See Table I (B)
Que Mailed: Libraries to which questionnaires were mailed
Lib Closed: Libraries no longer in existence
Lib Consol: Libraries whose response was consolidated with another library
Lib Valid Total: Libraries considered valid after eliminating previous two categories
Mail Resp Recd: Responses received by mail
Phon Resp Recd: Responses received by telephone (only ones reporting "no automation" accepted)
Total Resp Recd: Total of mail and telephone responses
%Resp Valid Total: Percentage of responses received from Library Valid Total
%Resp Valid Type: Percentage of responses received from Library Valid Total, within each Library Type
Libs Automatd: Libraries with automation projects implemented or planned
%Auto Valid Total: Percentage of libraries with automation projects implemented or planned from Library Valid Total
%Auto Valid Type: Percentage of libraries with automation projects implemented or planned from Library Valid Total, within each Library Type
%Auto Resp Recd: Percentage of libraries with automation projects implemented or planned from Total Responses Received

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	QUE MAILED	LIB CLOSED	LIB CONSOL	LIB VALID TOTAL	MAIL RESP RECD	PHON RESP RECD	TOTAL RESP RECD	%RESP VALID TOTAL	%RESP VALID TYPE	LIBS AUTOMATD	%AUTO VALID TOTAL	%AUTO VALID TYPE	%AUTO RESP RECD
Academic	1	0													
		T:	11	0	0	11	10	0	10	4.50	15.60	9	4.05	14.04	5.13
	T:		11	0	0	11	10	0	10	4.50	15.60	9	4.05	14.04	5.13
Academic	2	0													
		T:	32	0	0	32	24	1	25	11.25	39.00	16	7.20	24.96	9.12
	T:		32	0	0	32	24	1	25	11.25	39.00	16	7.20	24.96	9.12
Academic	3	0													
		T:	22	0	1	21	17	0	17	7.65	26.52	12	5.40	18.72	6.84
	T:		22	0	1	21	17	0	17	7.65	26.52	12	5.40	18.72	6.84
Total			65	0	1	64	51	1	52	23.40	81.12	37	16.65	57.72	21.09

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A1: LIBRARIES: TYPE, % RESPONSE, % AUTOMATION IMPLEMENTED, PLANNED
June 6, 1989, Page 2

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	QUE MAI LED	LIB CLO SED	LIB CON SOL	LIB VALID TOTAL	MAIL RESP RECD	PHON RESP RECD	TOTAL RESP RECD	%RESP VALID TOTAL	%RESP VALID TYPE	LIBS AUTO MATD	%AUTO VALID TOTAL	%AUTO VALID TYPE	%AUTO RESP RECD
Public	4	0													
		T:	6	0	0	6	6	0	6	2.70	23.10	6	2.70	23.10	3.42
	T:		6	0	0	6	6	0	6	2.70	23.10	6	2.70	23.10	3.42
Public	5	0													
		T:	12	0	0	12	10	0	10	4.50	38.50	10	4.50	38.50	5.70
	T:		12	0	0	12	10	0	10	4.50	38.50	10	4.50	38.50	5.70
Public	6	0													
		T:	8	0	0	8	3	0	3	1.35	11.55	0	0.00	0.00	0.00
	T:		8	0	0	8	3	0	3	1.35	11.55	0	0.00	0.00	0.00
Total:			26	0	0	26	19	0	19	8.55	73.15	16	7.20	61.60	9.12

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A1: LIBRARIES: TYPE, % RESPONSE, % AUTOMATION IMPLEMENTED, PLANNED
June 6, 1989, Page 3

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	QUE MAI LED	LIB CLO SED	LIB CON SOL	LIB VALID TOTAL	MAIL RESP RECD	PHON RESP RECD	TOTAL RESP RECD	%RESP VALID TOTAL	%RESP VALID TYPE	LIBS AUTO MATD	%AUTO VALID TOTAL	%AUTO VALID TYPE	%AUTO RESP RECD
Special	7	1													
		T:	36	2	1	33	25	3	28	12.60	21.00	15	6.75	11.25	8.55
Special	7	2													
		T:	12	0	1	11	4	1	5	2.25	3.75	2	0.90	1.50	1.14
Special	7	3													
		T:	18	2	0	16	12	1	13	5.85	9.75	6	2.70	4.50	3.42
Special	7	4													
		T:	17	0	0	17	12	1	13	5.85	9.75	8	3.60	6.00	4.56
Special	7	5													
		T:	13	0	0	13	9	1	10	4.50	7.50	0	0.00	0.00	0.00
Special	7	6													
		T:	16	0	1	15	7	0	7	3.15	5.25	3	1.35	2.25	1.71
Special	7	7													
		T:	21	0	2	19	15	1	16	7.20	12.00	7	3.15	5.25	3.99
Special	7	8													
		T:	3	0	0	3	2	0	2	0.90	1.50	0	0.00	0.00	0.00
Special	7	9													
		T:	9	1	1	7	7	2	9	4.05	6.75	4	1.80	3.00	2.28
	T:		145	5	6	134	93	10	103	46.35	77.25	45	20.25	33.75	25.65
Total:			145	5	6	134	93	10	103	46.35	77.25	45	20.25	33.75	25.65
Total:			236	5	7	224	163	11	174	78.30		98	44.10		55.86

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A2: LIBRARIES: AUTOMATION IMPLEMENTED, IN PROGRESS, PLANNED
September 4, 1989, Page 1

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	EAST MIDL WEST	LIB NUM BER	AUTO MATD NOW	AUTO MATD 0-2YR	AUTO MATD 2-5YR	AUTO MATD 5+YR
Academic	1	0	1	165	1	0	0	0
Academic	1	0	1	561	1	0	0	0
Academic	1	0	1	657	1	0	0	0
Academic	1	0	1	660	1	0	0	0
Academic	1	0	2	381	1	0	0	0
Academic	1	0	2	558	1	0	0	0
Academic	1	0	2	684	1	0	0	0
Academic	1	0	3	351	1	0	0	0
Academic	1	0	3	663	1	0	0	0
	Ct:				9	9	9	9
Academic	2	0	1	048	1	0	0	0
Academic	2	0	1	051	1	0	0	0
Academic	2	0	1	066	1	0	0	0
Academic	2	0	1	270	1	0	0	0
Academic	2	0	1	441	1	0	0	0
Academic	2	0	1	507	1	0	0	0
Academic	2	0	1	582	1	0	0	0
Academic	2	0	2	036	1	0	0	0
Academic	2	0	2	126	1	0	0	0
Academic	2	0	2	135	1	0	0	0
Academic	2	0	2	576	1	0	0	0
Academic	2	0	2	XXX	1	0	0	0
Academic	2	0	3	093	1	0	0	0
Academic	2	0	3	453	1	0	0	0
Academic	2	0	3	627	1	0	0	0
Academic	2	0	3	XXX	1	0	0	0
	Ct:				16	16	16	16
Academic	3	0	1	075	1	0	0	0
Academic	3	0	1	099	1	0	0	0
Academic	3	0	1	225	1	0	0	0
Academic	3	0	1	285	1	0	0	0
Academic	3	0	1	327	1	0	0	0
Academic	3	0	1	XXX	0	1	0	0
Academic	3	0	2	405	1	0	0	0
Academic	3	0	2	687	1	0	0	0
Academic	3	0	3	153	1	0	0	0
Academic	3	0	3	246	0	1	0	0
Academic	3	0	3	516	1	0	0	0
Academic	3	0	3	579	1	0	0	0
	Ct:				12	12	12	12

Total:	77							
Count:					37	37	37	37

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A2: LIBRARIES: AUTOMATION IMPLEMENTED, IN PROGRESS, PLANNED
September 4, 1989, Page 2

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	EAST MIDL WEST	LIB NUM BER	AUTO MATD NOW	AUTO MATD 0-2YR	AUTO MATD 2-5YR	AUTO MATD 5+YR
Public	4	0	1	081	1	0	0	0
Public	4	0	1	273	1	0	0	0
Public	4	0	1	282	1	0	0	0
Public	4	0	1	XXX	1	0	0	0
Public	4	0	2	447	1	0	0	0
Public	4	0	3	369	1	0	0	0
	Ct:				6	6	6	6
Public	5	0	1	417	1	0	0	0
Public	5	0	1	XXX	1	0	0	0
Public	5	0	1	XXX	1	0	0	0
Public	5	0	2	063	1	0	0	0
Public	5	0	2	222	1	0	0	0
Public	5	0	2	696	1	0	0	0
Public	5	0	2	XXX	1	0	0	0
Public	5	0	3	192	1	0	0	0
Public	5	0	3	450	1	0	0	0
Public	5	0	3	495	1	0	0	0
	Ct:				10	10	10	10
Total:	74							
Count:					16	16	16	16
Special	7	1	1	159	1	0	0	0
Special	7	1	1	198	1	0	0	0
Special	7	1	1	426	1	0	0	0
Special	7	1	2	333	1	0	0	0
Special	7	1	2	624	1	0	0	0
Special	7	1	2	XXX	1	0	0	0
Special	7	1	2	XXX	0	1	0	0
Special	7	1	3	030	1	0	0	0
Special	7	1	3	312	1	0	0	0
Special	7	1	3	372	1	0	0	0
Special	7	1	3	468	1	0	0	0
Special	7	1	3	504	1	0	0	0
Special	7	1	3	612	0	1	0	0
Special	7	1	3	615	1	0	0	0
Special	7	1	3	639	1	0	0	0
Special	7	2	1	XXX	1	0	0	0
Special	7	2	3	354	1	0	0	0
Special	7	3	1	108	1	0	0	0
Special	7	3	1	324	1	0	0	0
Special	7	3	2	XXX	1	0	0	0
Special	7	3	3	057	1	0	0	0
Special	7	3	3	228	1	0	0	0
Special	7	3	3	XXX	0	1	0	0

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.A2: LIBRARIES: AUTOMATION IMPLEMENTED, IN PROGRESS, PLANNED
September 4, 1989, Page 3

	LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	EAST MIDL WEST	LIB NUM BER	AUTO MATD NOW	AUTO MATD 0-2YR	AUTO MATD 2-5YR	AUTO MATD 5+YR
	Special	7	4	2	144	1	0	0	0
	Special	7	4	2	480	0	1	0	0
	Special	7	4	2	498	1	0	0	0
	Special	7	4	2	501	1	0	0	0
	Special	7	4	2	666	1	0	0	0
	Special	7	4	3	216	1	0	0	0
	Special	7	4	3	357	0	1	0	0
	Special	7	4	3	378	1	0	0	0
	Special	7	6	1	264	0	0	1	0
	Special	7	6	1	294	0	0	0	1
	Special	7	6	3	XXX	1	0	0	0
	Special	7	7	1	594	1	0	0	0
	Special	7	7	1	648	1	0	0	0
	Special	7	7	2	528	1	0	0	0
	Special	7	7	2	531	1	0	0	0
	Special	7	7	2	546	1	0	0	0
	Special	7	7	2	XXX	1	0	0	0
	Special	7	7	3	597	1	0	0	0
	Special	7	9	1	429	1	0	0	0
	Special	7	9	1	459	0	1	0	0
	Special	7	9	2	114	1	0	0	0
	Special	7	9	3	705	1	0	0	0
		Ct:				45	45	45	45
	Total:	315							
	Count:					45	45	45	45
Count:	98	98				98	98	98	98

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.B: REASONS FOR NOT AUTOMATING TECHNICAL SERVICE FUNCTIONS
June 7, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IB1	IB2	IB3	IB4	IB5	IB6	IB7	IB8	IB9	IB10	IB11	IB12
Academic	1	0	021	0	1	0	0	0	0	0	0	0	0	0	0
	Total:			0	1	0	0	0	0	0	0	0	0	0	0
Academic	2	0	201	0	1	0	1	0	0	0	0	0	1	1	0
Academic	2	0	288	0	1	1	0	0	0	0	0	0	0	0	0
Academic	2	0	303	0	1	1	0	0	0	0	0	0	0	0	0
Academic	2	0	330	0	1	1	0	0	0	0	0	0	0	0	0
Academic	2	0	XXX	0	1	1	0	0	0	1	0	0	0	0	0
Academic	2	0	XXX	1	1	0	0	0	0	0	0	0	0	1	0
Academic	2	0	XXX	0	1	0	0	0	0	0	0	0	0	0	0
Academic	2	0	XXX	0	1	1	0	0	0	0	0	0	0	1	0
	Total:			1	8	5	1	0	0	1	0	0	1	3	0
Academic	3	0	012	0	0	0	0	0	0	0	0	0	0	1	0
Academic	3	0	105	0	1	0	0	0	0	0	0	0	0	0	0
Academic	3	0	150	1	1	1	0	0	0	0	0	0	1	1	0
Academic	3	0	258	1	1	1	0	0	0	1	0	0	1	1	0
Academic	3	0	438	0	1	1	0	0	0	0	0	0	0	0	1
	Total:			2	4	3	0	0	0	1	0	0	2	3	1
Total:				3	13	8	1	0	0	2	0	0	3	6	1
Public	6	0	138	0	1	0	0	0	0	1	0	0	0	1	0
Public	6	0	306	0	1	1	0	0	0	0	0	0	0	0	0
Public	6	0	XXX	0	1	1	0	0	0	0	0	0	1	1	0
	Total:			0	3	2	0	0	0	1	0	0	1	2	0
Total:				0	3	2	0	0	0	1	0	0	1	2	0
Special	7	1	060	0	0	0	1	0	0	0	0	0	0	0	0
Special	7	1	162	0	1	1	0	0	0	0	0	0	0	0	0
Special	7	1	231	0	0	0	0	0	0	0	0	0	0	1	1
Special	7	1	345	1	0	0	0	0	0	0	0	0	0	0	0
Special	7	1	408	0	0	0	0	0	0	0	0	0	0	1	0
Special	7	1	465	0	0	0	0	0	0	0	1	0	1	1	1
Special	7	1	486	0	0	0	0	0	0	0	0	0	0	1	0
Special	7	1	708	1	1	1	0	0	1	1	0	0	1	1	1
Special	7	1	XXX	0	1	1	0	0	0	1	0	0	0	1	0
Special	7	1	XXX	0	1	1	0	0	0	0	0	0	0	1	0
Special	7	2	360	0	1	0	0	0	0	1	0	0	0	0	0
Special	7	2	363	0	0	1	0	0	0	0	0	0	0	1	0
Special	7	3	XXX	0	0	1	1	0	0	0	0	0	1	1	0
Special	7	3	XXX	0	1	0	0	0	0	0	0	0	0	1	0

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE I.8: REASONS FOR NOT AUTOMATING TECHNICAL SERVICE FUNCTIONS
June 7, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IB1	IB2	IB3	IB4	IB5	IB6	IB7	IB8	IB9	IB10	IB11	IB12
Special	7	3	XXX	0	1	1	0	0	0	1	0	0	0	0	0
Special	7	3	XXX	1	0	0	0	0	0	0	0	0	0	0	0
Special	7	3	XXX	1	0	0	0	0	0	0	0	0	1	1	0
Special	7	3	XXX	1	0	0	0	0	0	0	0	0	1	1	0
Special	7	4	009												
Special	7	4	180	1	1	0	0	0	0	0	0	0	1	0	0
Special	7	4	675	0	0	0	0	0	0	0	0	0	0	1	0
Special	7	4	XXX	1	0	0	1	0	0	1	0	0	1	1	0
Special	7	5	123	1	0	0	0	0	0	1	0	0	0	1	0
Special	7	5	339	0	1	1	0	0	0	0	0	0	0	1	0
Special	7	5	348	0	1	1	0	0	0	0	0	0	0	1	0
Special	7	5	444	0	1	1	0	0	1	1	0	0	0	1	0
Special	7	5	519	1	0	0	0	0	0	0	0	0	0	1	0
Special	7	5	522	1	0	0	0	0	0	0	0	0	0	1	0
Special	7	5	702	1	0	0	0	0	0	0	0	0	1	1	0
Special	7	5	XXX	0	1	0	0	0	1	1	0	0	0	1	0
Special	7	5	XXX												
Special	7	6	291	1	1	1	0	0	0	0	0	0	0	0	0
Special	7	6	309	1	0	0	0	0	0	0	0	0	0	1	0
Special	7	6	XXX	0	1	0	0	0	0	0	0	0	0	0	0
Special	7	6	XXX	0	0	0	0	0	0	0	0	0	0	0	1
Special	7	7	267	1	0	0	1	0	1	1	0	0	0	1	0
Special	7	7	534	1	0	0	1	0	0	0	0	0	0	1	0
Special	7	7	600	0	0	0	0	0	0	0	0	0	0	1	0
Special	7	7	603	1	0	0	0	0	0	0	0	0	1	1	0
Special	7	7	609	0	1	0	0	0	0	0	0	0	0	0	0
Special	7	7	636	0	1	0	0	0	0	1	0	0	0	1	0
Special	7	7	XXX	1	1	1	0	0	0	0	0	0	0	0	0
Special	7	7	XXX	0	0	0	0	0	0	0	0	0	0	1	0
Special	7	8	297	1	0	0	1	0	0	0	0	1	0	1	0
Special	7	8	XXX	0	1	1	0	0	0	1	0	0	0	1	0
Special	7	9	069	0	1	1	0	0	0	0	0	0	0	0	0
Special	7	9	336	0	1	0	0	0	0	1	0	0	0	1	0
Special	7	9	633	0	1	1	0	0	0	0	0	0	0	1	0
	Total:			18	21	15	6	0	4	12	1	1	9	33	4
	Total:			18	21	15	6	0	4	12	1	1	9	33	4
Total:				21	37	25	7	0	4	15	1	1	13	41	5
Count:	65			Manual system adequate (4)	Start-up funds unavailable (2)	Operating funds unavailable (3)	Unsuitable for special coll (7)	Avoid displacing staff (12)	Unfamiliar w/ auto options (5)	Trained staff unavailable (5)	Awaiting lower prices (10)	Awaiting hdware improve. (11)	Not cost efficient (6)	Small library size (1)	Other (9)

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.A1: ACQUISITIONS: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY TYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIA1 ACQ	STA TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	381	1	2	2	5	1	1989	93	3.45	1.02
Academic	1	0	558	1	2	1	5	1	1989	32	3.45	1.02
Academic	1	0	657	1	1	1	4	3	1987		3.45	1.02
Academic	1	0	660	1	1	2	5	1	1988	45	3.45	1.02
Academic	1	0	663	1	3	4	5	3	1991		3.45	1.02
Academic	1	0	684	1	1	1	7	3	1985	77	3.45	1.02
	Total:			6							20.70	6.12
Academic	2	0	036	1	3						3.45	1.02
Academic	2	0	066	1	3	5	5	2	1991		3.45	1.02
Academic	2	0	270	1	1	1	6	3	1981	80	3.45	1.02
Academic	2	0	441	1	1	1	5	2	1987	30	3.45	1.02
Academic	2	0	507	1	2	2					3.45	1.02
Academic	2	0	576	1	3	4	5	3	1992		3.45	1.02
Academic	2	0	XXX	1	3	2	5	1			3.45	1.02
	Total:			7							24.15	7.14
Academic	3	0	075	1	1	3	6	3	1984	80	3.45	1.02
Academic	3	0	153	1	3	4	5	3	1993		3.45	1.02
Academic	3	0	405	1	1	2	5	1	1984	87	3.45	1.02
	Total:			3							10.35	3.06
Total:				16							55.20	16.32
Public	4	0	369	1	2	1	5	1	1989	32	3.45	1.02
Public	4	0	XXX	1	3	5					3.45	1.02
	Total:			2							6.90	2.04
Public	5	0	696	1	3						3.45	1.02
	Total:			1							3.45	1.02
Total:				3							10.35	3.06
Special	7	1	159	1	1	3	3	2	1988		3.45	1.02
Special	7	1	612	1	2	3	4	3			3.45	1.02
Special	7	1	615	1	3	1	6				3.45	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.A1: ACQUISITIONS: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 2

LIBRARY TYPE	LIBRARY TYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIA1 ACQ	STATUS	HARDWARE	SOFTWARE	ENVIRONMENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Special	7	1	639	1	2	1	4	1	1989	46	3.45	1.02
Special	7	1	XXX	1	3	1	3				3.45	1.02
Special	7	1	XXX	1	3	3					3.45	1.02
Special	7	3	057	1	1	3	5	1	1988	90	3.45	1.02
Special	7	4	357	1	4	3	4	2	1989		3.45	1.02
Special	7	7	528	1	2	3	5	2	1989		3.45	1.02
Special	7	7	597	1	3	3	6	1			3.45	1.02
	Total:			10							34.50	10.20
Total:				10							34.50	10.20
Total:				29							100.05	29.58
Count:	29											

1= 9
2= 7
3=12
4= 1

30=1
32=2
45=1
46=1
77=1
80=2
87=1
90=1
93=1

1=9
2=5
3=8
4=3

5=2

3= 2
4= 4
5=13
6= 4
7= 1

Acad
1=7
2=3
3=6

Pub
2=1
3=2

1=9
2=5
3=8

Spec
1=2
2=3
3=4
4=1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIA2 ACQ	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	660	1	1	3	4	1	1988	16	4.17	1.02
Academic	1	0	663	1	1	1	4	2	1984		4.17	1.02
Academic	1	0	684	1	1	3	4	1	1985	64&67&86	4.17	1.02
	Total:			3							12.51	3.06
Academic	2	0	051	1	1	3	4	3	1988	15	4.17	1.02
Academic	2	0	066	1	2	3	5	2	1989		4.17	1.02
Academic	2	0	093	1	1	3	4	3	1989	15	4.17	1.02
Academic	2	0	126	1	2	3	4	1	1989	15	4.17	1.02
Academic	2	0	XXX	1	3	5					4.17	1.02
	Total:			5							20.85	5.10
Academic	3	0	516	1	2	3	4	3	1990		4.17	1.02
Academic	3	0	579	1	1	3	4	3	1988	15	4.17	1.02
	Total:			2							8.34	2.04
Total:				10							41.70	10.20
Public	4	0	273	1	2	3	4	3	1988		4.17	1.02
Public	4	0	282	1	3	5					4.17	1.02
Public	4	0	369	1	1	1	5	1	1984	15	4.17	1.02
	Total:			3							12.51	3.06
Public	5	0	450	1	2	3	6	3	1989		4.17	1.02
Public	5	0	XXX	1	2	4	5	3	1989		4.17	1.02
	Total:			2							8.34	2.04
Total:				5							20.85	5.10
Special	7	1	198	1	1	3	4	1	1988	67	4.17	1.02
Special	7	1	333	1	1	3	3	1	1987		4.17	1.02
Special	7	1	624	1	1	3	5	1	1988	86	4.17	1.02
Special	7	1	639	1	1	3	4	1	1988	67	4.17	1.02
Special	7	3	324	1	1	1	3	1	1988		4.17	1.02
Special	7	4	378	1	2	3	4	3	1989		4.17	1.02
Special	7	4	666	1	3	5					4.17	1.02
Special	7	7	XXX	1	4	5					4.17	1.02
Special	7	9	429	1	2	3	1	1	1988		4.17	1.02
	Total:			9							37.53	9.18
Total:				9							37.53	9.18
Total:				24	1=12 2= 8 3= 3 4= 1	1= 3 3=16 4= 1 5= 4	1= 1 3= 2 4=12 5= 4	1=10 2= 2 3= 8		15=5 16=1 67=3 86=1	100.08	24.48
Count:	24	24										

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.A3: ACQUISITIONS: PURCHASE ORDER PREPARATION
June 7, 1989, Page 1

	LIBRARY NUMBER	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRAY NUMBER	IIA3 ACQ	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
	Academic	1	0	351	1	1	3	2	2	1988		12.50	1.02
	Academic	1	0	558	1	1	1	4	3	1979		12.50	1.02
		Total:			2							25.00	2.04
	Academic	2	0	453	1	1	1	3	1	1981	37	12.50	1.02
		Total:			1							12.50	1.02
	Total:				3							37.50	3.06
	Special	7	1	372	1	1	2	3		1987		12.50	1.02
	Special	7	1	468	1	1	3	2	1	1985		12.50	1.02
	Special	7	3	XXX	1	2	3	4	2	1989		12.50	1.02
	Special	7	4	498	1	3				1992		12.50	1.02
	Special	7	7	594	1	1	3	2	1	1988		12.50	1.02
		Total:			5							62.50	5.10
	Total:				5							62.50	5.10
Total:					8							100.00	8.16
Count:	6					1=6 2=1 3=1					37=1		
							1=2 2=1 3=4						
								2=3 3=2 4=2					
									1=3 2=2 3=1				

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
IIA4: ACQUISITIONS: BUDGETING/FUND ACCOUNTING
June 7, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIA4 ACQ	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	558	1	1	1	4	3	1979		11.11	1.02
Academic	1	0	663	1	1	3	2	2	1986		11.11	1.02
Academic	1	0	684	1	1	1	4	3	1972		11.11	1.02
	Total:			3							33.33	3.06
Academic	2	0	093	1	1	3	3	1	1988		11.11	1.02
Academic	2	0	135	1	1	3	2	1	1986		11.11	1.02
Academic	2	0	453	1	1	1	3	1	1981		11.11	1.02
Academic	2	0	627	1	1	1	2	3	1986		11.11	1.02
	Total:			4							44.44	4.08
Total:				7							77.77	7.14
Public	4	0	081	1	1	3	1	1	1986		11.11	1.02
Public	4	0	282	1	3	5					11.11	1.02
	Total:			2							22.22	2.04
Total:				2							22.22	2.04
Total:				9							99.99	9.18
Count:	9				1=8 3=1	1=4 3=4 5=1	1=1 2=3 3=2 4=2	1=4 2=1 3=3				

TABLE II.A5: ACQUISITIONS: OTHER FUNCTIONS

June 7, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIAS ACQ	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	381	1	1	1	4	3	1985		14.29	1.02
	Total:			1							14.29	1.02
Total:				1							14.29	1.02
Special	7	1	504	1	1	2	4	2	1969		14.29	1.02
Special	7	2	354	1	1	3	1	2	1986		14.29	1.02
Special	7	3	XXX	1	1	3	3	1	1986		14.29	1.02
Special	7	4	501	1	1	3	1	2	1984		14.29	1.02
Special	7	9	114	1	1	3	1	1	1987		14.29	1.02
Special	7	9	429	1	1	3	1	1	1986		14.29	1.02
	Total:			6							85.74	6.12
Total:				6							85.74	6.12
Total: Count:	7			7							100.03	7.14
					1=7			1=3				
						1=1		2=3				
						2=1		3=1				
						3=5						
							1=4					
							3=1					
							4=2					

Other acquisitions functions:

--Acquisitions control 501
--Acquisitions lists 504
--Bibliographic database of prospective acquisitions 114
--Exchange listing maintenance program 381
--Invoice & order processing (dBASE III software) 354
--Online report, journal articles, document ordering 429
--Order tracking XXX

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.B1: CATALOGING: CURRENT CATALOGING
June 7, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIB1 CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	165	1	1	1	6	1	1978	80	1.23	1.02
Academic	1	0	351	1	1	1	6	1	1979	80	1.23	1.02
Academic	1	0	381	1	1	1	6	1	1975	80	1.23	1.02
Academic	1	0	558	1	1	1	6	1	1976	80	1.23	1.02
Academic	1	0	561	1	1	1	6	1		80	1.23	1.02
Academic	1	0	657	1	1	1	5	1	1973	80	1.23	1.02
Academic	1	0	660	1	1	1	6	1	1975	80	1.23	1.02
Academic	1	0	663	1	1	1	6	1	1975	80	1.23	1.02
Academic	1	0	684	1	1	1	6	1	1975	80	1.23	1.02
	Total:			9							11.07	9.18
Academic	2	0	036	1	1	2	6	1	1986	80	1.23	1.02
Academic	2	0	051	1	1	3	6	1	1986	80	1.23	1.02
Academic	2	0	066	1	1	1	6	1	1977	80	1.23	1.02
Academic	2	0	093	1	1	3	6	1	1988	80	1.23	1.02
Academic	2	0	126	1	1	3	6	4	1987	80	1.23	1.02
Academic	2	0	135	1	1	3	6	3	1977	80	1.23	1.02
Academic	2	0	270	1	1	1	6	1	1981	80	1.23	1.02
Academic	2	0	441	1	1	1	6	1	1981	80	1.23	1.02
Academic	2	0	453	1	1	1	6	1	1977	80	1.23	1.02
Academic	2	0	507	1	1	1	6	3	1977	80	1.23	1.02
Academic	2	0	576	1	1	1	6	1	1976	80	1.23	1.02
Academic	2	0	582	1	1	1	6	1		80	1.23	1.02
Academic	2	0	627	1	1	3	6	1	1987	80	1.23	1.02
Academic	2	0	XXX	1	1	1	5	1	1974	80	1.23	1.02
	Total:			14							17.22	14.28
Academic	3	0	075	1	1	1	6	1	1983	80	1.23	1.02
Academic	3	0	153	1	3	3	6	2	1990		1.23	1.02
Academic	3	0	246	1	2	2	6	2	1989		1.23	1.02
Academic	3	0	405	1	1	2	5	1	1984	70	1.23	1.02
Academic	3	0	516	1	1	4	4	2	1987	20	1.23	1.02
Academic	3	0	579	1	1	4	5	1	1987	62	1.23	1.02
Academic	3	0	687	1	1	1	6	1	1977	80	1.23	1.02
Academic	3	0	XXX	1	2	3	6	2	1989		1.23	1.02
	Total:			8							9.84	8.16
Total:				31							38.13	31.62
Public	4	0	081	1	1	2	6	3	1979	80	1.23	1.02
Public	4	0	273	1	1	4	5	1	1987	62	1.23	1.02
Public	4	0	282	1	1	1	6	3	1979	80	1.23	1.02
Public	4	0	369	1	1	1	6	1		80	1.23	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.81: CATALOGING: CURRENT CATALOGING
June 7, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIBI CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Public	4	0	447	1	1	3	6	1	1979	80	1.23	1.02
Public	4	0	XXX	1	3	5					1.23	1.02
	Total:			6							7.38	6.12
Public	5	0	063	1	1	1	5	1	1988	10	1.23	1.02
Public	5	0	192	1	1	3	4	2	1987	10	1.23	1.02
Public	5	0	222	1	1	3	5	3	1988	10	1.23	1.02
Public	5	0	417	1	1	3	5	1		10	1.23	1.02
Public	5	0	450	1	1	3	6	3	1988	10	1.23	1.02
Public	5	0	495	1	1	2	4	3	1988	10	1.23	1.02
Public	5	0	696	1	1	3	1	3	1988	10	1.23	1.02
Public	5	0	XXX	1	1	1	6	1	1988	10	1.23	1.02
Public	5	0	XXX	1	1	1	5	1	1988	10	1.23	1.02
Public	5	0	XXX	1	1	2	5	3	1988	10	1.23	1.02
	Total:			10							12.30	10.20
Total:				16							19.68	16.32
Special	7	1	159	1	1	2	6	1	1985	80	1.23	1.02
Special	7	1	198	1	1	3	4	3	1988	70	1.23	1.02
Special	7	1	312	1	2	1			1989		1.23	1.02
Special	7	1	333	1	1	1	6	1	1974	80	1.23	1.02
Special	7	1	426	1	1	3	6	3	1987	80	1.23	1.02
Special	7	1	612	1	2	3	4	2			1.23	1.02
Special	7	1	615	1	3	1	6	1			1.23	1.02
Special	7	1	639	1	1	1	6	1	1979	80	1.23	1.02
Special	7	1	XXX	1	1	1	6	3		80	1.23	1.02
Special	7	1	XXX	1	2	3					1.23	1.02
Special	7	2	354	1	1	3	6	3	1982	80	1.23	1.02
Special	7	2	XXX	1	1	3	6	1		80	1.23	1.02
Special	7	3	057	1	1	3	6	1	1987	80	1.23	1.02
Special	7	3	228	1	1	1	4	4	1984		1.23	1.02
Special	7	3	324	1	1	3	6	3	1979	80	1.23	1.02
Special	7	3	XXX	1	1	1	6	1	1983	80	1.23	1.02
Special	7	4	144	1	1	3	6	3	1986	80	1.23	1.02
Special	7	4	216	1	2	3	5	1	1990		1.23	1.02
Special	7	4	357	1	4	3	4	2			1.23	1.02
Special	7	4	378	1	1	3	6	3	1982	80	1.23	1.02
Special	7	4	480	1	2	5					1.23	1.02
Special	7	4	498	1	1	2	6	1	1987	80	1.23	1.02
Special	7	4	501	1	1	3	6	3	1984	80	1.23	1.02
Special	7	4	666	1	1	3	6	2		80	1.23	1.02
Special	7	6	XXX	1	1	3	2	1	1988		1.23	1.02
Special	7	7	528	1	1	3	5	3	1987	90	1.23	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.B1: CATALOGING: CURRENT CATALOGING
June 7, 1989, Page 3

	LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIB1 CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
	Special	7	7	531	1	1	1	4	1	1983		1.23	1.02
	Special	7	7	546	1	1	1	6	1	1979	80	1.23	1.02
	Special	7	7	594	1	1	1	6	1	1978	80	1.23	1.02
	Special	7	7	597	1	1	3	6	1	1986	80	1.23	1.02
	Special	7	7	648	1	1	3	1	1	1987	17	1.23	1.02
	Special	7	7	XXX	1	1	3	6	1	1981	80	1.23	1.02
	Special	7	9	429	1	1	3	1	1	1987		1.23	1.02
	Special	7	9	459	1	2	4	2	1			1.23	1.02
		Total:			34							41.82	34.68
	Total:				34							41.82	34.68
Total:					81							99.63	82.62
Count:	81					1=69 2= 8 3= 3 4= 1					10=10 17= 1 20= 1 62= 2 70= 2 80=48 90= 1		
							1=34 2= 8 3=33 4= 4 5= 2						
						Acad 1=28 2= 2 3= 1		1= 3 2= 2 4= 8 5=12 6=52					
						Pub 1=15 3= 1			1=49 2= 8 3=18 4= 2				
						Spec 1=26 2= 6 3= 1 4= 1							

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988 89
TABLE II.B2: CATALOGING: RETROSPECTIVE CONVERSION OF CATALOGING RECORDS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIB2 CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	1	1	6	1	1980	80	3.85	1.02
Academic	1	0	381	1	1	1	6	1	1983	80	3.85	1.02
Academic	1	0	657	1	1	1	5	1	1973	80	3.85	1.02
Academic	1	0	660	1	1	1	6	1	1981	80	3.85	1.02
Academic	1	0	663	1	1	1	6	1	1979	80	3.85	1.02
Academic	1	0	684	1	1	1	6	3	1976	80	3.85	1.02
	Total:			6							23.10	6.12
Academic	2	0	093	1	1	1	6	2	1988	80	3.85	1.02
Academic	2	0	135	1	1	3	6	1	1982	80	3.85	1.02
Academic	2	0	441	1	1	1	6	1	1981	80	3.85	1.02
Academic	2	0	453	1	1	1	6	1	1978	80	3.85	1.02
Academic	2	0	576	1	1	1	6	1	1976	80	3.85	1.02
	Total:			5							19.25	5.10
Academic	3	0	075	1	1	1	6	3	1986	80	3.85	1.02
Academic	3	0	405	1	1	3	4	2	1984	70	3.85	1.02
Academic	3	0	579	1	1	4	5	3	1987	62	3.85	1.02
	Total:			3							11.55	3.06
Total:				14							53.90	14.28
Public	4	0	081	1	1	2	4	2	1981	80	3.85	1.02
Public	4	0	282	1	1	1	6	1	1982	80	3.85	1.02
Public	4	0	447	1	1	3	6	1	1982	80	3.85	1.02
	Total:			3							11.55	3.06
Total:				3							11.55	3.06
Special	7	1	333	1	1	4			1987	62	3.85	1.02
Special	7	1	639	1	1	1	6	1	1980	80	3.85	1.02
Special	7	2	354	1	3	5					3.85	1.02
Special	7	2	XXX	1	1	3	6	1		80	3.85	1.02
Special	7	3	057	1	1	3	6	1	1988	80	3.85	1.02
Special	7	3	324	1	1	2	6	3	1983	80	3.85	1.02
Special	7	4	498	1	2	2	6	1	1992		3.85	1.02
Special	7	7	546	1	1	1	6	1	1984	80	3.85	1.02
Special	7	7	XXX	1	4	5					3.85	1.02
	Total:			9							34.65	9.18
Total:				9							34.65	9.18
Total:				26	1=23 2= 1 3= 1 4= 1	1=14 2= 3 3= 5 4= 2	4= 2 5= 2 6=19	1=16 2= 3 3= 4		62= 2 70= 1 80=20	100.10	26.52
Count:	26											

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.B3: CATALOGING: CATALOG CARD/LABEL PRODUCTION
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIB4 CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	2	0	048	1	1	3	1	1	1988		7.69	1.02
Academic	2	0	XXX	1	1	3	1	2			7.69	1.02
	Total:			2							15.38	2.04
Academic	3	0	153	1	1	3	1	3	1988		7.69	1.02
Academic	3	0	225	1	1	3	4	3			7.69	1.02
Academic	3	0	285	1	1	3	1	1	1987		7.69	1.02
Academic	3	0	327	1	1	3	1	1	1988		7.69	1.02
	Total:			4							30.76	4.08
Total:				6							46.14	6.12
Public	5	0	063	1	1	3	5	3	1988		7.69	1.02
	Total:			1							7.69	1.02
Total:				1							7.69	1.02
Special	7	1	372	1	1	2	3		1987		7.69	1.02
Special	7	1	426	1	1	3	1	1	1985		7.69	1.02
Special	7	1	468	1	1	3	1	3	1987	70	7.69	1.02
Special	7	3	108	1	1	3	4	1	1985		7.69	1.02
Special	7	4	216	1	1	3	1	1	1988		7.69	1.02
Special	7	9	114	1	1	3	5	1	1988		7.69	1.02
	Total:			6							46.14	6.12
Total:				6							46.14	6.12
Total:				13							99.97	13.26
Count:	13				1=13					70=1		
						2= 1 3=12						
							1=8 3=1 4=2 5=2					
								1=7 2=1 3=4				

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.B4: CATALOGING: OTHER FUNCTIONS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIB5 CAT	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	2	1	6	3	1988		10.00	1.02
Academic	1	0	663	1	3	2	5	1	1990		10.00	1.02
	Total:			2							20.00	2.04
Academic	3	0	075	1	1	3	2	3	1988		10.00	1.02
Academic	3	0	405	1	1	4	4	2	1986	62	10.00	1.02
	Total:			2							20.00	2.04
Total:				4							40.00	4.08
Special	7	1	159	1	1	1	4	2	1985		10.00	1.02
Special	7	1	504	1	1	2	4	3	1969		10.00	1.02
Special	7	1	624	1	1	3	3	2	1987		10.00	1.02
Special	7	3	228	1	1	1	4	3	1987		10.00	1.02
Special	7	3	324	1	1	1	3	4	1984		10.00	1.02
Special	7	7	594	1	1	1	5	4	1984	25	10.00	1.02
	Total:			6							60.00	6.12
Total:				6							60.00	6.12
Total:				10							100.00	10.20
Count:	10				1=8 2=1 3=1	1=5 2=2 3=2 4=1	2=1 3=2 4=4 5=2 6=1	1=1 2=3 3=4 4=2		25=1 62=1		

Other cataloging functions:

--Additional source of current cataloging records 405 (vendor code: 62)
--Audio-visual catalog 159
--Audio-visual software list 075
--Authority control 351, 663
--Book catalog (custom software) 504
--Catalog & index of periodical articles 228
--Computer-output-microfiche catalog 324, 594
--Shelf list (dBASE III software) 624

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.C1: CIRCULATION: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIC1 CIRC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	165	1	3	5					2.13	1.02
Academic	1	0	351	1	1	2	5	1	1985	30	2.13	1.02
Academic	1	0	381	1	2	2	5	1	1989	93	2.13	1.02
Academic	1	0	558	1	2	1	5	1	1989	32	2.13	1.02
Academic	1	0	657	1	1	2	5	1	1983	98	2.13	1.02
Academic	1	0	660	1	1	2	5	1	1983	45	2.13	1.02
Academic	1	0	663	1	3	2	5	1	1990		2.13	1.02
Academic	1	0	684	1	1	1	7	3	1986	77	2.13	1.02
	Total:			8							17.04	8.16
Academic	2	0	036	1	1	2	5	1	1987	79	2.13	1.02
Academic	2	0	066	1	2	4	5	1	1990		2.13	1.02
Academic	2	0	093	1	3	2	5	1	1990		2.13	1.02
Academic	2	0	441	1	1	1	6	1	1987	30	2.13	1.02
Academic	2	0	507	1	2	2					2.13	1.02
Academic	2	0	576	1	3	3	5	1	1990		2.13	1.02
Academic	2	0	627	1	3	2	5	3			2.13	1.02
Academic	2	0	XXX	1	4	5					2.13	1.02
Academic	2	0	XXX	1	3	2	5	1			2.13	1.02
	Total:			9							19.17	9.18
Academic	3	0	075	1	2	4	5	3	1988		2.13	1.02
Academic	3	0	099	1	1	1		1	1981		2.13	1.02
Academic	3	0	153	1	3	4	5	3	1991		2.13	1.02
Academic	3	0	405	1	1	2	5	1	1984	87	2.13	1.02
Academic	3	0	516	1	3	1	5	3	1993		2.13	1.02
Academic	3	0	579	1	3	5	5	3			2.13	1.02
Academic	3	0	687	1	3	5					2.13	1.02
	Total:			7							14.91	7.14
Total:				24							51.12	24.48
Public	4	0	273	1	1	1	5	1	1987	36	2.13	1.02
Public	4	0	282	1	3	2	5	3	1991		2.13	1.02
Public	4	0	369	1	1	2	5	1	1981	79	2.13	1.02
	Total:			3							6.39	3.06
Public	5	0	XXX	1	4						2.13	1.02
	Total:			1							2.13	1.02
Total:				4							8.52	4.08
Special	7	1	159	1	2	3	3	2			2.13	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.C1: CIRCULATION: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IICI CIRC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Special	7	1	312	1	2	1			1989		2.13	1.02
Special	7	1	333	1	1	3	5		1988		2.13	1.02
Special	7	1	468	1	2	3	5	1	1989		2.13	1.02
Special	7	1	612	1	2	3	4	2			2.13	1.02
Special	7	1	615	1	3	1	6	1			2.13	1.02
Special	7	1	639	1	2	1	4	1	1989	46	2.13	1.02
Special	7	1	XXX	1	3	3					2.13	1.02
Special	7	1	XXX	1	3	1	3				2.13	1.02
Special	7	2	354	1	3	5					2.13	1.02
Special	7	3	057	1	1	3	5	1	1989	90	2.13	1.02
Special	7	3	324	1	1	2	5	1	1983	79	2.13	1.02
Special	7	4	357	1	3	3	4		1991		2.13	1.02
Special	7	4	498	1	4						2.13	1.02
Special	7	4	666	1	3	1		1			2.13	1.02
Special	7	7	528	1	2	3	5	3	1989		2.13	1.02
Special	7	7	531	1	1	1	4	1	1983		2.13	1.02
Special	7	7	597	1	3	3	6	1			2.13	1.02
Special	7	7	XXX	1	4	5					2.13	1.02
	Total:			19							40.47	19.38
Total:				19							40.47	19.38
Total:				47							100.11	47.94
Count:	47											

1=14
2=11
3=18
4= 4

Acad
1= 8
2= 5
3=10
4= 1

Pub
1= 2
3= 1
4= 1

Spec
1= 4
2= 6
3= 7
4= 2

1=12
2=14
3=10
4= 3
5= 6

3= 2
4= 4
5=25
6= 3
7= 1

1=24
2= 2
3= 8

30=2
32=1
36=1
45=1
46=1
77=1
79=3
87=1
90=1
93=1
98=1

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.C2: CIRCULATION: CHECK IN/CHECK OUT
June 6, 1989, Page 1

	LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIC? CIRC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
	Academic	3	0	579	1	2	1	4	2	1988		33.33	1.02
		Total:			1							33.33	1.02
	Total:				1							33.33	1.02
	Public	4	0	XXX	1	1	1	3	1			33.33	1.02
		Total:			1							33.33	1.02
	Total:				1							33.33	1.02
	Special	7	9	429	1	1	3	1		1987		33.33	1.02
		Total:			1							33.33	1.02
	Total:				1							33.33	1.02
Total: Count:	3				3							99.99	3.06
						1=2 2=1			1=1 2=1				
							1=2 3=1						
								1=1 3=1 4=1					

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.C3: CIRCULATION: OTHER FUNCTIONS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IICS CIRC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	1	1	5	2	1985		11.11	1.02
Academic	1	0	657	1	1	2	5	1	1986	98	11.11	1.02
	Total:			2							22.22	2.04
Academic	2	0	576	1	1	3	2	1	1988		11.11	1.02
	Total:			1							11.11	1.02
Academic	3	0	285	1	1	3	1	1	1986		11.11	1.02
Academic	3	0	405	1	1	2	5	1	1985	87	11.11	1.02
	Total:			2							22.22	2.04
Total:				5							55.55	5.10
Public	4	0	369	1	2	1	5	1	1989		11.11	1.02
	Total:			1							11.11	1.02
Total:				1							11.11	1.02
Special	7	1	624	1	1	3	2	2	1987		11.11	1.02
Special	7	4	378	1	2	2	2	3	1989		11.11	1.02
Special	7	4	498	1	2	2	3	1	1990		11.11	1.02
	Total:			3							33.33	3.06
Total:				3							33.33	3.06
Total:				9							99.99	9.18

Count: 9

	1=6 2=3		1=6 2=2		
Other circulation functions:		1=2 2=4	3=1	87=1	
--Audio-visual equipment 498		3=3		98=1	
--Fine reporting & billing coordinated with institution's business office 351, 378			1=1 2=3		
--OCLC Local System (former DataPhase system) to be replaced by DRA system in 1989 369			3=1 5=4		

--Overdues 285, 576
--Reserve collection maintenance 657
--Reserves 405
--Statistics for all media circulation (PFS: Report software) 624

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.D1: ONLINE PUBLIC ACCESS CATALOG
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IID1 OPAC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	165	1	3	5					1.96	1.02
Academic	1	0	351	1	1	2	5	1	1984	30	1.96	1.02
Academic	1	0	381	1	2	2	5	1	1989	93	1.96	1.02
Academic	1	0	558	1	2	1	5	1	1989	32	1.96	1.02
Academic	1	0	657	1	1	2	5	1	1984	98	1.96	1.02
Academic	1	0	660	1	1	2	5	1	1987	45	1.96	1.02
Academic	1	0	663	1	3	2	5	1	1990		1.96	1.02
Academic	1	0	684	1	1	1	7	1	1985	77	1.96	1.02
	Total:			8							15.68	8.16
Academic	2	0	036	1	1	2	5	1	1986	79	1.96	1.02
Academic	2	0	066	1	2	4	5	1	1989		1.96	1.02
Academic	2	0	093	1	3	2	4	1	1990		1.96	1.02
Academic	2	0	441	1	4						1.96	1.02
Academic	2	0	507	1	2						1.96	1.02
Academic	2	0	576	1	2	4	5	1	1990		1.96	1.02
Academic	2	0	627	1	3	2	5	3			1.96	1.02
Academic	2	0	XXX	1	3	2	5	1			1.96	1.02
Academic	2	0	XXX	1	4	5					1.96	1.02
	Total:			9							17.64	9.18
Academic	3	0	075	1	1	4	5	1	1987	62	1.96	1.02
Academic	3	0	153	1	3	4	5	3	1991		1.96	1.02
Academic	3	0	405	1	1	2	5	1	1984	87	1.96	1.02
Academic	3	0	516	1	3	1	5	3	1993		1.96	1.02
Academic	3	0	579	1	3	5	5	3			1.96	1.02
Academic	3	0	687	1	1	4	5	1	1988	62	1.96	1.02
Academic	3	0	XXX	1	3						1.96	1.02
	Total:			7							13.72	7.14
Total:				24							47.04	24.48
Public	4	0	273	1	1	1	5	1	1987	36	1.96	1.02
Public	4	0	282	1	4	2	5	1	1992		1.96	1.02
Public	4	0	369	1	2	1	5	1	1989	32	1.96	1.02
Public	4	0	XXX	1	3	5					1.96	1.02
	Total:			4							7.84	4.08
Public	5	0	450	1	4						1.96	1.02
Public	5	0	XXX	1	4						1.96	1.02
	Total:			2							3.92	2.04
Total:				6							11.76	6.12

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.D1: ONLINE PUBLIC ACCESS CATALOG
June 6, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IID1 OPAC	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Special	7	1	312	1	2	1			1989		1.96	1.02
Special	7	1	333	1	2	5					1.96	1.02
Special	7	1	468	1	2	3	5	1	1989		1.96	1.02
Special	7	1	615	1	3	1	6	1			1.96	1.02
Special	7	1	639	1	2	1	4	1	1989	46	1.96	1.02
Special	7	1	XXX	1	3	1	3				1.96	1.02
Special	7	1	XXX	1	4	3					1.96	1.02
Special	7	2	354	1	3	5					1.96	1.02
Special	7	3	057	1	2	3	5	1	1989		1.96	1.02
Special	7	3	324	1	1	2	5	1	1983	79	1.96	1.02
Special	7	4	144	1	4	5					1.96	1.02
Special	7	4	357	1	4	3	4				1.96	1.02
Special	7	4	498	1	4						1.96	1.02
Special	7	4	666	1	3	1		3			1.96	1.02
Special	7	7	528	1	4	3	5	3	1994		1.96	1.02
Special	7	7	531	1	1	1	4	1	1983		1.96	1.02
Special	7	7	597	1	3	3	6	1			1.96	1.02
Special	7	7	648	1	3	3	1	1	1990		1.96	1.02
Special	7	7	XXX	1	4	5					1.96	1.02
Special	7	9	429	1	1	3	1		1988		1.96	1.02
Special	7	9	459	1	4						1.96	1.02
	Total:			21							41.16	21.42
Total:				21							41.16	21.42
Total:				51							99.96	52.02
Count:	51											

1=12
2=11
3=16
4=12

Acad.
1=8
2=5
3=9
4=2
24

Pub.
1=1
2=1
3=1
4=3
6

Spec.
1=3
2=5
3=6
4=7
21

1=11
2=12
3= 8
4= 5
5= 8

1= 2
3= 1
4= 4
5=24
6= 2
7= 1

1=26
3= 6

30=1
32=2
36=1
45=1
46=1
62=2
77=1
79=2
87=1
93=1
98=1

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1986/89
TABLE II.E1: SERIALS: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIE1 SER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	2	2	5	1	1989	30	2.50	1.02
Academic	1	0	381	1	2	2	5	1	1989	93	2.50	1.02
Academic	1	0	558	1	2	1	5	1	1990	32	2.50	1.02
Academic	1	0	657	1	1	2	5	1	1987	98	2.50	1.02
Academic	1	0	663	1	3	2	5	1	1990		2.50	1.02
Academic	1	0	684	1	1	1	7	3	1985	77	2.50	1.02
	Total:			6							15.00	6.12
Academic	2	0	036	1	3	3	5	1			2.50	1.02
Academic	2	0	093	1	2	3	3	1	1989		2.50	1.02
Academic	2	0	441	1	4						2.50	1.02
Academic	2	0	507	1	2						2.50	1.02
Academic	2	0	582	1	1	3	2	1			2.50	1.02
Academic	2	0	627	1	3	2	5	3			2.50	1.02
Academic	2	0	XXX	1	3	2	5	1			2.50	1.02
Academic	2	0	XXX	1	4	5					2.50	1.02
	Total:			8							20.00	8.16
Academic	3	0	099	1	1	3	2		1983		2.50	1.02
Academic	3	0	153	1	3	3	5	1	1992		2.50	1.02
Academic	3	0	405	1	1	2	5	1	1984	87	2.50	1.02
Academic	3	0	516	1	3	1	5	3	1993		2.50	1.02
	Total:			4							10.00	4.08
Total:				18							45.00	18.36
Public	4	0	369	1	2	1	5	1	1989	32	2.50	1.02
	Total:			1							2.50	1.02
Public	5	0	XXX	1	4						2.50	1.02
	Total:			1							2.50	1.02
Total:				2							5.00	2.04
Special	7	1	198	1	2	3					2.50	1.02
Special	7	1	312	1	2	1			1989		2.50	1.02
Special	7	1	333	1	1	3	3	1	1986		2.50	1.02
Special	7	1	612	1	2	3	4	2			2.50	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.E1: SERIALS: MULTI-FUNCTION PROGRAM
June 6, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIE1 SER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Special	7	1	615	1	2	1	6	1			2.50	1.02
Special	7	1	624	1	2	1	6	1	1989		2.50	1.02
Special	7	1	639	1	2	1	4	1	1989	46	2.50	1.02
Special	7	1	XXX	1	2	1	3				2.50	1.02
Special	7	1	XXX	1	2	3					2.50	1.02
Special	7	2	354	1	3	5					2.50	1.02
Special	7	3	057	1	2	3	5	1	1989		2.50	1.02
Special	7	3	324	1	1	3	6	3	1988	80	2.50	1.02
Special	7	4	144	1	4	5					2.50	1.02
Special	7	4	357	1	2	3	4		1990		2.50	1.02
Special	7	4	498	1	3				1992		2.50	1.02
Special	7	4	501	1	4						2.50	1.02
Special	7	4	666	1	3	5					2.50	1.02
Special	7	7	528	1	2	3	5	3	1989		2.50	1.02
Special	7	7	597	1	3	3	6	1			2.50	1.02
Special	7	7	XXX	1	4	5					2.50	1.02
	Total:			20							50.00	20.40
Total:				20							50.00	20.40
Total:				40							100.00	40.80
Count:	40											

1= 7
2=17
3=10
4= 6

Acad
1= 5
2= 5
3= 6
4= 2

Pub
2= 1
4= 1

Spec
1= 2
2=11
3= 4
4= 3

1= 9
2= 7
3=14
4= 2
5= 5

2= 2
3= 3
4= 3
5=14
6= 4
7= 1

1=18
2= 1
3= 5

30=1
32=2
46=1
77=1
80=1
87=1
93=1
98=1

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.E2: SERIALS: CHECK IN/CLAIM
June 7, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIE2 SER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	660	1	1	1	5	1	1985	40	11.11	1.02
	Total:			1							11.11	1.02
Academic	2	0	270	1	1	3	1	3			11.11	1.02
	Total:			1							11.11	1.02
Academic	3	0	579	1	1	1	4	1	1988		11.11	1.02
	Total:			1							11.11	1.02
Total:				3							33.33	3.06
Special	7	1	312	1	1	3	1	1	1986		11.11	1.02
Special	7	1	639	1	1	3	4	1	1987	85	11.11	1.02
Special	7	3	XXX	1	1	3	3	1	1986		11.11	1.02
Special	7	4	216	1	3	3	1	1			11.11	1.02
Special	7	6	XXX	1	1	3	2	1	1988		11.11	1.02
Special	7	7	XXX	1	2	5			1989		11.11	1.02
	Total:			6							66.66	6.12
Total:				6							66.66	6.12
Total:				9							99.99	9.18
Count:	9											
					1=7 2=1 3=1			1=7 3=1				
										40=1 85=1		
						1=2 3=6 5=1						
							1=3 2=1 3=1 4=2 5=1					

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.E3: SERIALS: ONLINE ACCESS TO VENDOR DATABASE
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIES SER	STAT TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	165	1	1	1	5	1	1984	40	11.11	1.02
Academic	1	0	351	1	2	3	4	1	1989	40&37	11.11	1.02
Academic	1	0	558	1	1	1	5	1	1986	37	11.11	1.02
Academic	1	0	660	1	1	1	5	1	1986	40	11.11	1.02
Academic	1	0	684	1	1	1	4	3	1986	40&67	11.11	1.02
	Total:			5							55.55	5.10
Academic	2	0	453	1	1	1	4	1	1987	37	11.11	1.02
	Total:			1							11.11	1.02
Total:				6							66.66	6.12
Special	7	1	426	1	2	3	4	1	1989		11.11	1.02
Special	7	1	468	1	1	3	1	1	1987	67	11.11	1.02
Special	7	9	429	1	2	3	1		1988		11.11	1.02
	Total:			3							33.33	3.06
Total:				3							33.33	3.06
Total: Count:	9			9							99.99	9.18
					1=6 2=3			1=7 3=1				
						1=5 3=4				37=3 40=4		
							1=2 4=4 5=3			67=2		

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.E4: SERIALS: HOLDINGS LISTS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIE4 SER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	1	3	2	1	1986		7.14	1.02
Academic	1	0	663	1	1	3	4	1	1985		7.14	1.02
Academic	1	0	684	1	1	1	4	3	1968		7.14	1.02
	Total:			3							21.42	3.06
Academic	3	0	075	1	1	3	2	3	1988		7.14	1.02
Academic	3	0	285	1	1	3	1	1	1983		7.14	1.02
	Total:			2							14.28	2.04
Total:				5							35.70	5.10
Special	7	1	159	1	1	3	3	2			7.14	1.02
Special	7	1	198	1	1	3	1	1	1987		7.14	1.02
Special	7	1	372	1	1	2	3		1987		7.14	1.02
Special	7	1	504	1	1	2	4	2	1969		7.14	1.02
Special	7	1	624	1	1	3	2	3	1987		7.14	1.02
Special	7	4	216	1	2	3	1	1	1989		7.14	1.02
Special	7	7	546	1	1	3	1	1	1988		7.14	1.02
Special	7	7	648	1	2	3	1	1	1989		7.14	1.02
Special	7	9	114	1	1	3	1	1	1987		7.14	1.02
	Total:			9							64.26	9.18
Total:				9							64.26	9.18
Total:				14							99.96	14.28
Count:	14											

1=12
2= 2

1= 1
2= 2
3=11

1=7
2=2
3=2
4=3

1=8
2=2
3=3

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.E5: SERIALS: OTHER FUNCTIONS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIES SER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	1	1	6	1	1983	80	8.33	1.02
Academic	1	0	684	1	1	3	2	1	1987		8.33	1.02
	Total:			2							16.66	2.04
Academic	2	0	453	1	1	1	3	1	1981		8.33	1.02
	Total:			1							8.33	1.02
Total:				3							24.99	3.06
Public	4	0	081	1	1	3	1	1	1987		8.33	1.02
Public	4	0	369	1	1	3	3	1	1988		8.33	1.02
	Total:			2							16.66	2.04
Total:				2							16.66	2.04
Special	7	1	159	1	1	3	3	3	1986		8.33	1.02
Special	7	1	624	1	1	3	2	2	1987		8.33	1.02
Special	7	3	108	1	1	3	1	3	1988		8.33	1.02
Special	7	7	531	1	3	1	4	3	1990		8.33	1.02
Special	7	7	546	1	3	3	1	1			8.33	1.02
Special	7	7	594	1	1	1	3	2	1984		8.33	1.02
Special	7	7	XXX	1	2	5			1989		8.33	1.02
	Total:			7							58.31	7.14
Total:				7							58.31	7.14
Total:				12							99.96	12.24
Count:	12											

	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	VENDOR CODE
	1=9			1=6	
	2=1			2=2	
	3=2			3=3	
		1=4			80=1
		3=7			
		5=1			
			1=3		
			2=2		
			3=4		
			4=1		
			6=1		

Other serials functions:

--Bindery list preparation 684
--Computerized Kardex, claims, want list 624
--Holdings lists, accounting, routing 369
--Intra-library claim reports 081
--Journal routing system 594, XXX
--MARC conversion 351
--Patron subscription records 531
--Payment records 546
--Record retrieving, accounting reports 453
--Serials cost database 108
--Tennessee State Health Sciences Libraries union list 159

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F1: OTHER FUNCTIONS: CD-ROMS (NON-OPAC)
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF1 OTHER	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	657	1	1	4	5	1	1987	27	25.00	1.02
Academic	1	0	660	1	1	4	5	1	1987	27	25.00	1.02
	Total:			2							50.00	2.04
Academic	2	0	627	1	1	4	4	2	1987	27	25.00	1.02
	Total:			1							25.00	1.02
Total:				3							75.00	3.06
Public	5	0	XXX	1	2	4	5	3	1989		25.00	1.02
	Total:			1							25.00	1.02
Total:				1							25.00	1.02
Total:				4							100.00	4.08
Count:	4											
					1=3 2=1					27=3		
						4=4						
							4=1 5=3					
								1=2 2=1 3=1				

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F2: OTHER FUNCTIONS: ELECTRONIC MAIL
June 8, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF2 OTHR	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	381	1	2	2	5	1	1989		3.57	1.02
Academic	1	0	558	1	2	1	5		1989		3.57	1.02
Academic	1	0	657	1	1	1	5	1	1988		3.57	1.02
Academic	1	0	660	1	1	3	5	1	1988		3.57	1.02
Academic	1	0	684	1	1	1	4	1	1987		3.57	1.02
	Total:			5							17.85	5.10
Academic	2	0	453	1	1	1	5	1			3.57	1.02
	Total:			1							3.57	1.02
Academic	3	0	075	1	1	2	1	1	1985		3.57	1.02
Academic	3	0	405	1	1	2	5	1	1985	87	3.57	1.02
Academic	3	0	687	1	1	1	3	1	1987		3.57	1.02
	Total:			3							10.71	3.06
Total:				9							32.13	9.18
Public	4	0	273	1	1	1	4	1	1988		3.57	1.02
	Total:			1							3.57	1.02
Public	5	0	XXX	1	2	3	5	1	1991		3.57	1.02
	Total:			1							3.57	1.02
Total:				2							7.14	2.04
Special	7	1	030	1	1	3	6	1	1984		3.57	1.02
Special	7	1	333	1	1						3.57	1.02
Special	7	1	372	1	1	2	4	1	1982		3.57	1.02
Special	7	1	468	1	1	3	2	1	1984		3.57	1.02
Special	7	1	504	1	1	2	6	1	1986		3.57	1.02
Special	7	1	615	1	1	1	6	1	1986	95	3.57	1.02
Special	7	1	624	1	1	3	6	1	1987		3.57	1.02
Special	7	1	639	1	1	1	4	1	1986		3.57	1.02
Special	7	1	XXX	1	1	1	3				3.57	1.02
Special	7	3	057	1	1	1	5	1	1989		3.57	1.02
Special	7	4	144	1	4	5					3.57	1.02
Special	7	4	066	1	1	1	4	1	1988		3.57	1.02
Special	7	7	528	1	4	3	2	3	1991		3.57	1.02
Special	7	7	531	1	1	3	5	3	1987		3.57	1.02

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F2: OTHER FUNCTIONS: ELECTRONIC MAIL
June 8, 1989, Page 2

	LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF2 OTHR	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
	Special	7	7	594	1	1	2	5	1	1988		3.57	1.02
	Special	7	7	597	1	1	3	6	1			3.57	1.02
	Special	7	9	429	1	1	3	1		1987		3.57	1.02
		Total:			17							60.69	17.34
	Total:				17							60.69	17.34
Total:					28							99.96	28.56
Count:	28												
						1=23			1=21				
						2= 3			3= 2				
						4= 2					87=1		
							1=11				95=1		
							2= 6						
							3= 9						
							5= 1						
						Acad		1= 2					
						1= 7		2= 2					
						2= 2		3= 2					
								4= 5					
						Pub		5=10					
						1= 1		6= 5					
						2= 1							
						Spec							
						1=15	(9=Med)						
						4= 2							

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F3: OTHER FUNCTIONS: INVENTORY OF FURNITURE, EQUIPMENT, ETC.
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF3 OTHR	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	2	0	066	1	2	4	5	1	1990		16.67	1.02
	Total:			1							16.67	1.02
Academic	3	0	405	1	1	2	5	1	1985	87	16.67	1.02
Academic	3	0	687	1	1	1	3	1	1977		16.67	1.02
	Total:			2							33.34	2.04
Total:				3							50.01	3.06
Public	5	0	417	1	1	3	1	1			16.67	1.02
	Total:			1							16.67	1.02
Total:				1							16.67	1.02
Special	7	1	XXX	1	1	3	2		1987		16.67	1.02
Special	7	7	528	1	4	3	2	3	1991		16.67	1.02
	Total:			2							33.34	2.04
Total:				2							33.34	2.04
Total:				6							100.02	6.12
Count:	6											
					1=4			1=4				
					2=1			3=1				
					4=1					87=1		
						1=1						
						2=1						
						3=3						
						4=1						
							1=1					
							2=2					
							3=1					
							5=2					

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F4: OTHER FUNCTIONS: STATISTICS
June 6, 1989, Page 1

	LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF4 OTHR	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
	Academic	1	0	351	1	1	3	1	1	1985		25.00	1.02
	Academic	1	0	660	1	1	3	1	1	1986		25.00	1.02
	Academic	1	0	684	1	2	6	4	3	1980		25.00	1.02
		Total:			3							75.00	3.06
	Academic	2	0	453	1	1	1	2	1	1984		25.00	1.02
		Total:			1							25.00	1.02
	Total:				4							100.00	4.08
Total:					4							100.00	4.08
Count:	4												
						1=3 2=1			1=3 3=1				
							1=1 3=2 6=1						
								1=2 2=1 4=1					

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE II.F5: OTHER FUNCTIONS: MISCELLANEOUS
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	IIF5 OTHR	STA-TUS	HARD WARE	SOFT WARE	ENVI MENT	BEGIN YEAR	VENDOR CODE	% TOTAL TYPE	% TOTAL AUTO
Academic	1	0	351	1	1	3	1	1	1985		7.14	1.02
Academic	1	0	558	1	2	1	5	5	1989	32	7.14	1.02
Academic	1	0	657	1	1	2	5	1	1983		7.14	1.02
	Total:			3							21.42	3.06
Academic	2	0	036	1	1	2	5	1	1986		7.14	1.02
Academic	2	0	XXX	1	3	2	5	1			7.14	1.02
Academic	2	0	XXX	1	1	3	1	2			7.14	1.02
	Total:			3							21.42	3.06
Academic	3	0	075	1	1	3	1	1	1988		7.14	1.02
Academic	3	0	285	1	1	3	1	1	1987		7.14	1.02
	Total:			2							14.28	2.04
Total:				8							57.12	8.16
Public	4	0	273	1	1	1	4	1	1986		7.14	1.02
	Total:			1							7.14	1.02
Total:				1							7.14	1.02
Special	7	1	XXX	1	1	3	2		1987		7.14	1.02
Special	7	2	354	1	1	3	1	2	1986		7.14	1.02
Special	7	4	144	1	1	3	1	1	1986		7.14	1.02
Special	7	4	498	1	2	2	3	1	1990		7.14	1.02
Special	7	9	705	1	1	3	1	1	1986		7.14	1.02
	Total:			5							35.70	5.10
Total:				5							35.70	5.10
Total:				14							99.96	14.28

Count: 14

1=11
2= 2
3= 1

1=10
2= 2
5= 1

32=1

1=2
2=4
3=8

1=7
2=1
3=1
4=1
5=4

Other miscellaneous functions:

--Audio-visual booking system 669
--Ledger, order processing, budget control 273
--Reserve management 558
--Word processing & other office automation, e.g. acquisitions lists; administrative book inventory; bibliographies 036, 075 120, 144, 285, 351, 354, 498, 621, 657, 705

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.4B: INVENTORY OF SOFTWARE, HARDWARE, NETWORKS, AND SYSTEMS
June, 6, 1989, Page 1

Libraries granting permission to list their names and automation status are identified by number from the list of Participating Libraries, Table I. The holdings of libraries not wishing to be identified are represented by XXX.

SOFTWARE: ACQUISITIONS

Access (Rittenhouse) 684
ACQcess (Midwest Lib. Serv.) 378,516
Acquire (Baker & Taylor) 051,066,093,273,516,579
Ballen 660
Books in Print Plus (Bowker) 660
Libris (Baker & Taylor) 369
Login 684
MORE (J. A. Majors Co.) 198,468,639,684
Matthews 639

SOFTWARE: CATALOGING

Agile II (Auto-Graphics) 696,XXX
Bib-Base (Library Technologies) 582,648
BiblioFile (Library Corporation) 273,333,516,579 687
Cataloging Micro Enhancer (OCLC) 081,093,135,282, 354,501,XXX
CardPrep (Library Software) 426
Librarian's Helper (Scarecrow Pr.) 108,114,153,285
Marcive 198,468
Quick Card (Follett Software Co.) 048,216,XXX
Sydney Micro Library System (Sydney Development Corp.) 528
Ultracard/MARC (Library Technologies) 063,222,696, XXX,XXX

SOFTWARE: CIRCULATION

Circulation Plus (Follett Software Co.) 333
Overdue Writer (Follett Software Co.) 285

SOFTWARE: COMMUNICATIONS

Crosstalk (Crosstalk Communications) 057
Mirror (Softklone Dist. Corp.) 684
PFS:Access (Software Publishing) 624
Procomm (DataStorm Technologies) 093,312,468,624
Red Ryder Communications (FreeSoft) 429
Smartcom (Hayes Microcomputer Products) 312,468
SmarTerm 240 (Persoft Inc.) 324
Vidtex (Radio Shack) 372

SOFTWARE: DATABASE MANAGEMENT

dBASE (Ashton-Tate) 057,063,075,093,108,114,159, 192,198,222,273,285,324,351,354,369,405,417, 426,450,453,459,495,531,546,582,594,624,627, 663,684,696,XXX,XXX,XXX,XXX
DataEase (DataEase Int'l) 507
DataPerfect (LJK Enterprises) 381
FoxBASE (Fox Software) 627
HyperCard (Apple Computer) XXX,XXX
Image/Transact (Hewlett/Packard) 504
Informix (Informix Software) 468
Oracle (Oracle) 468
PC-File (Buttonware) 066,081,381,684
PFS:File (Software Publishing) 501,XXX
PFS:Report (Software Publishing) 624
PFS: Professional File (Software Publishing) 369
Q&A (Symatec) 351
R:Base (Microrim) 648,XXX
RapidFile (Ashton-Tate) 270
Sci-Mate (ISI) 057
Sonar (Virginia Systems) XXX
VA Fileman 624

SOFTWARE: INTEGRATED

AppleWorks (Apple Computer) 705,XXX
Enable (Software Group) 159,282
Framework (Ashton-Tate) 051,270
Microsoft Works (Microsoft Corp.) 429,576
PFS:First Choice (Software Publishing) 351
Symphony (Lotus Development) 324,426

SOFTWARE: LIBRARY APPLICATIONS PROGRAMS

Reference Manager (Research Info. Systems) 468
Subject List (Right On Programs) 285
Vertical File Locator (Right On Programs) 285

SOFTWARE: NETWORKING

Novell Network 057, 312

SOFTWARE: SERIALS

EBSCONET (EBSCO) 351
LINX (F. W. Faxon) 165,351,660,684
Periodical Router (Right On Programs) 198
REMO (Readmore) 639

SOFTWARE: SPREADSHEET

DECalc (Digital Equipment Corp.) 579
Lotus 1-2-3 (Lotus Development) 063,066,135,192, 198,222,273,324,351,369,405,417,450,453,459, 495,528,531,546,627,660,663,666,684,XXX,XXX XXX
MathPlan (WordPerfect Corp.) 507
Microsoft Excel (Microsoft Corp.) XXX
PC-Calc (Buttonware) 081,381,447,624
PlanPerfect (WordPerfect Corp.) 381
Quattro (Borland Int'l) 684
SuperCalc (Computer Associates) 351
20/20 (Access Technology) 453
Twin (Mosaic Software) XXX
VP-Planner (Paperback Software) 153,270,285,663

SOFTWARE: UTILITIES

Automaxx (Computer Enhancement Group) 351
Fixed Disk Organizer (Int'l Bus. Machines) 468
Norton Utilities (Peter Norton Computing) 546

Libraries granting permission to list their names and automation status are identified by number from the list of Participating Libraries, Table I. The holdings of libraries not wishing to be identified are represented by XXX.

PCWord (Source View Software) 624
Personal Manager 273
Sideways (Funk Software) 063

SOFTWARE: WORD PROCESSING

DEC-Type (Digital Equipment Corp.) 579
DisplayWrite (Int'l Bus. Machines) 057,063,108,192, 192,222,369,417,450,495,531,546,660,696,XXX
IBM Writing Assistant (Int'l Bus. Machines) XXX
Leading Edge WP (Leading Edge Products) 405
Lyrix (Santa Cruz Operation) 468
MacWrite (Apple Computer) XXX
MJ-Write 447
Microsoft Word (Microsoft Corp.) 528,684,XXX,XXX
Multimate (Ashton-Tate) 114,285
PC-Write (Quicksoft, Inc.) 066,081,285
PFS:Write (Software Publishing Corp.) 501
Samna Word (Samna Corp.) 351,354
Scripsit (Tandy Corp.) 372,XXX
Volkswriter (Lifetree Software) XXX
WordPerfect (WordPerfect Corp.) 093,114,144, 198,216,270,285,324,351,369,378,405,426,453, 468,507,579,582,627,648,660,681,XXX
WordStar (MicroPro Int'l) 066,114,378,459
WPS-DOS (Digital Equip. Corp.) 453,663

HARDWARE: MAINFRAME COMPUTER

Amdahl 5890 (Amdahl) 531
DEC PDP-10 (Digital Equip. Corp.) 324
Geac 8000 (Geac Computers) 660
IBM 3033 (Int'l Bus. Machines) 324
IBM 4361 (Int'l Bus. Machines) 684
IBM 4381 (Int'l Bus. Machines) 057
Unisys 5000/55 (Unisys Corp.) 405

HARDWARE: MINICOMPUTER

DEC (Digital Equip. Corp.) 429
DG MV 8000 II (Data General) 369
DG Eclipse DS-280 (Data General) 324
DG 5120 (Data General) 036
HP3000 (Hewlett Packard) 504,657,684
IBM System 38 (Int'l Bus. Machines) XXX
IBM 9370 (Int'l Bus. Machines) 273
PDP 11/44 (Digital Equip. Corp) 351
PDP 11/73 (Digital Equip. Corp) 351,441
VAX (Digital Equip. Corp.) 429
VAX 11/780 (Digital Equip. Corp.) 579
VAX 11/785 (Digital Equip. Corp.) 453
VAX 8600 (Digital Equip. Corp.) 333

HARDWARE: MICROCOMPUTER

AT&T PC 6300+ (AT&T Technologies) 420
Apple IIe (Apple Computer) 120,705
Apple Lisa (Apple Computer) 468
Apple Macintosh (Apple Computer) 666
Apple Macintosh + (Apple Computer) 312,XXX
Apple Macintosh SE (Apple Computer) 429,576,XXX
BiblioFile Intelligent Catalog (Library Corp.) 066, 333,687
Compaq Deskpro 286 (Compaq Computer Corp.) 429,XXX
Compaq Deskpro 386 (Compaq Computer Corp.) 576
Corona PC (Corona Data Systems) 114
DEC Rainbow (Digital Equip. Corp.) 453,639,663
Epson Equity I+ (Epson America) 225
IBM PC (Int'l Bus. Machines) 159,270,378,495,657, 696
IBM PC XT (Int'l Bus. Machines) 153,216,273,531, 579,624,648,660,XXX,XXX
IBM PC AT (Int'l Bus. Machines) 108,124,192,198, 222,459,594,XXX,XXX
IBM PS/2 Model 30 (Int'l Bus. Machines) 312,576
IBM PS/2 Model 50 (Int'l Bus. Machines) 468
IBM PS/2 Model 60 (Int'l Bus. Machines) 093,159,XXX
Leading Edge D PC (Leading Edge Products) 270
NCR PC6 (NCR Corp.) 063,405,450,528,XXX
OCLC M220 (Wyse Technology) 447
OCLC M300 (Int'l Bus. Machines) 051,075,081,135, 144,165,282,351,354,369,381,441,447,453,501, 507,546,594,597,657,660,663,666,XXX,XXX
OCLC M300 XT (Int'l Bus. Machines) 447,594
OCLC M300 XT F (Int'l Bus. Machines) 447,XXX
OCLC M310 (Wyse Technology) 093,351,546,576,639, 666,XXX
OCLC 330 (Wyse Technology) 075,XXX
PC Limited 286 (PC's Limited) 576
Packard-Bell 80286 (Packard-Bell) 063
Panasonic 286 (Panasonic) 369
Radio Shack TRS-80 (Tandy Corp.) 327,372
RK-V1 (Rakoa) 624
Saturn 1000 XT 285
Sperry (Unisys Corp.) 405
Tandy 1000 (Tandy Corp.) 048
WYSE-pc (Wyse Technology) 405
Zenith (Zenith Data Systems) 135,684
Zenith Z-151 (Zenith Data Systems) 351
Zenith Z-159 (Zenith Data Systems) 351,354

HARDWARE: TERMINALS

Agile II (Auto-Graphics) 192
ADM (Lear Sigler) 324
H/P (Hewlett Packard) 324,657

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.AB: INVENTORY OF SOFTWARE, HARDWARE, NETWORKS, AND SYSTEMS
June 6, 1989, Page 3

Libraries granting permission to list their names and automation status are identified by number from the list of Participating Libraries, Table I. The holdings of libraries not wishing to be identified are represented by XXX.

IBM 3278 (Int'l Bus. Machines) 531
OCLC (Beehive Int'l) 066
OCLC 100 (Beehive Int'l) 369,453,660,663,687,XXX
OCLC 105 (Beehive Int'l) 075,165,282,351,369,441, 639,660
Telex 276-12 (Telex Computer Products) 165
Telex 278 (Telex Computer Products) 165
Telex 476L (Telex computer Products) 684
TeleVideo 921 (TeleVideo Systems) 405
VT 100 (Digital Equip. Corp.) 453
VT 220 (Digital Equip. Corp.) 324,579,639
Wyse 50 (Wyse Technology) 273
Zenith (Zenith Data Systems) 468

NETWORKS

Agile II (Auto-Graphics) 063,192,222,417,450,495, 696,XXX,XXX
FEDLINK/OCLC (Federal Libraries Network) 594,597
SOLINET/OCLC (Southeastern Library Network) 036, 051,057,066,075,081,093,126,135,144,159,165, 270,282,324,333,351,354,369,378,381,405,447, 453,498,501,507,546,558,576,627,639,657,660, 663,666,669,687,XXX,XXX,XXX,XXX
VALNET (Veterans Adm. Network) 615

SYSTEMS: VENDORS

Auto-Graphics (Agile II) 063,192,222,417,495,696, XXX,XXX
CLSI, Inc. (LIBS 100) 351,441
Data Research Associates (ATLAS) 369, 558
Dynix, Inc. (Dynix) 273
Geac Computers (Geac) 660
Georgetown University Medical Center (Library Information System (LIS)) 639
Library Corporation (BiblioFile) 273,333,516,579, 687
Library Technologies (Bib-Base) 582,648
Marcive (Marcive) 198,468
NOTIS Systems, Inc.(NOTIS--software only) 684
OCLC Local Systems Division (LS/2000) 036,324,369
SIRSI Corp. (Unicorn Collection Mgmt. System) 405
Sydney Dataproducts Inc. (Easy Data Lib.) 057,528
UNISYS (PALS) 381
VTLS (VTLS) 657

AUTOMATION OF TECHNICAL SERVICES FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.CE: MACHINE READABLE CODES, BIBLIOGRAPHIC UTILITY, COOPERATION
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	C1A	C1B	C1C	C1D	C2A	C2B	C2C	C2D	D1	D2	D3	E1	E2	E3	E4
Academic	1	0	165	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	1	0	351	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Academic	1	0	381	1	0	0	0	1	0	0	0	0	1	0				
Academic	1	0	558									0	1	0				
Academic	1	0	561									0	1	0				
Academic	1	0	657	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Academic	1	0	669	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Academic	1	0	663									0	1	0	1	0	0	0
Academic	1	0	684	0	1	0	0	0	1	0	0	0	0	1	1	0	0	0
	Total:			2	4	0	0	2	4	0	0	0	8	1	6	0	0	0
Academic	2	0	036	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Academic	2	0	048	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Academic	2	0	051									0	1	0	1	0	0	0
Academic	2	0	066	1				1				0	1	0	1	0	0	0
Academic	2	0	093	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	126									0	1	0	0	0	0	1
Academic	2	0	135	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	270	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	441	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0
Academic	2	0	453	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	507									0	1	0	1	0	0	0
Academic	2	0	576	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	582	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	2	0	627	1				1				0	1	0				
Academic	2	0	XXX	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Academic	2	0	XXX									0	1	0				
	Total:			10	2	0	0	10	2	0	0	2	14	0	12	0	0	1
Academic	3	0	075									0	1	0				
Academic	3	0	099									1	0	0	1	0	0	0
Academic	3	0	153	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Academic	3	0	225	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Academic	3	0	246															
Academic	3	0	285	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Academic	3	0	327	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Academic	3	0	405	0	0	1	0	0	0	1	0	0	1	1	1	0	0	0
Academic	3	0	516															
Academic	3	0	579	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Academic	3	0	687	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Academic	3	0	XXX															
	Total:			6	0	1	0	6	0	1	0	4	3	3	8	0	0	0
Total:				18	6	1	0	19	6	1	0	6	25	4	26	0	0	1
Public	4	0	081	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Public	4	0	273	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0

AUTOMATION OF TECHNICAL SERVICES FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.CE: MACHINE READABLE CODES, BIBLIOGRAPHIC UTILITY, COOPERATION
June 6, 1989, Page 2

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	C1A	C1B	C1C	C1D	C2A	C2B	C2C	C2D	D1	D2	D3	E1	E2	E3	E4
Public	4	0	282	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Public	4	0	369	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0
Public	4	0	447	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Public	4	0	XXX	0	1	0	0	0	1	0	0	1	0	0	1	0	0	0
	Total:			3	2	1	0	3	2	1	0	2	4	0	6	0	0	0
Public	5	0	063	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
Public	5	0	192									0	0	1	1	0	0	0
Public	5	0	222									0	0	1	0	0	0	1
Public	5	0	417									0	0	1				
Public	5	0	450	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
Public	5	0	495	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Public	5	0	696	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Public	5	0	XXX	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Public	5	0	XXX									0	0	1	0	0	0	1
Public	5	0	XXX									0	0	1	1	0	0	0
	Total:			5	0	0	0	5	0	0	0	1	0	9	4	0	0	5
Total:				8	2	1	0	8	2	1	0	3	4	9	10	0	0	5
Special	7	1	030									0	1	0	0	0	0	0
Special	7	1	159	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	1	198	1	0	0	0	1	0	0	0	1	0	0	0	0	0	1
Special	7	1	312	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Special	7	1	333	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	1	372									0	0	1	1	0	0	0
Special	7	1	426									1	0	0	1	0	0	0
Special	7	1	468	0	0	0	1	0	0	0	1	1	0	0	1	0	0	0
Special	7	1	504															
Special	7	1	612															
Special	7	1	615	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Special	7	1	624	0	1	0	0	0	1	0	0	0	1	0	1	0	0	0
Special	7	1	639															
Special	7	1	XXX	1	0	0	0	1	0	0	0	0	1	0	0	0	1	0
Special	7	2	354	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	2	XXX									0	1	0	1	0	0	0
Special	7	3	057	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Special	7	3	108	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	3	228	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	3	324	0	1	1	0	0	1	1	0	0	1	0	0	1	1	1
Special	7	3	XXX	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	3	XXX	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	4	144	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	4	216	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	4	357															
Special	7	4	378	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	4	480															

AUTOMATION OF TECHNICAL SERVICES FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.CE: MACHINE READABLE CODES, BIBLIOGRAPHIC UTILITY, COOPERATION
June 6, 1989, Page 3

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	C1A	C1B	C1C	C1D	C2A	C2B	C2C	C2D	D1	D2	D3	E1	E2	E3	E4
Special	7	4	498	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	4	501	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	4	666	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	6	264															
Special	7	6	294															
Special	7	6	XXX	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	7	528	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	7	531	0	0	1	0	0	0	1	0	1	0	0	0	0	0	1
Special	7	7	546	1	0	0	0	1	0	0	0	0	1	0	1	0	0	0
Special	7	7	594	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Special	7	7	597									0	0	1	1	0	0	0
Special	7	7	648	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	7	XXX									0	1	0	1	0	0	0
Special	7	9	114	1	0	0	0	1	0	0	0	1	0	0	1	0	0	0
Special	7	9	429	1	0	0	0	1	0	0	0	0	0	1	1	0	0	0
Special	7	9	459	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0
Special	7	9	705									1	0	0	1	0	0	0
	Total:			25	3	2	1	25	3	2	1	16	15	6	31	1	3	3
Total:				25	3	2	1	25	3	2	1	16	15	6	31	1	3	3
Total:				51	11	4	1	51	11	4	1	25	44	19	67	1	3	3
Count:	98																	

MACHINE-READABLE IDENTIFICATION CODES
- Users, No
- Users, Yes, bar codes
- Users, Yes, OCR
- Users, Yes, Other
- Material, No
- Material, Yes, bar codes
- Material, Yes, OCR
- Material, Yes, Other

BIBLIOGRAPHIC UTILITY MEMBERSHIP
- No
- Yes, OCLC/SOLINET
- Yes, Other

COOPERATION WITH OTHER LIBRARIES
- No
- Yes, equipment shared
- Yes, staff shared
- Yes, database shared

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.FJ: COOPERATION, COST STUDIES, AUTO. REASONS, SOURCE OF EXPERTISE
June 6, 1989, Page 1

LIB SUB TYP	SPE SUB TYP	LIB NUM BER	F1	G1	H1	H2	I1	I2	I3	I4	I5	I6	I7	J1	J2	J3	J4	J5	J6	J7	J8	J9
1	0	165					1	1	1	1	0	1	0	0	1	0	1	0	0	1	1	0
1	0	351	0	0	1	1	0	1	0	1	0	1	0	1	1	0	1	0	1	1	1	0
1	0	381																				
1	0	558																				
1	0	561																				
1	0	657	0	1	1		1	1	1	1	0	1	0	0	1	0	1	0	0	1	1	1
1	0	660	0	0	0	0	0	1	1	1	0	1	0	1	1	0	0	0	1	0	1	0
1	0	663	0	0	0	0	0	1	1	1	0	1	0	1	1	0	1	0	1	0	1	0
1	0	684	0	0	1	0	0	1	1	1	1	1	1	1	1	0	1	0	1	1	1	1
T:			0	1	3	1	2	6	5	6	1	6	1	4	6	0	5	0	4	4	6	2
2	0	036	0	0	0	0	0	1	0	0	0	1	0	0	1	0	1	0	0	0	0	0
2	0	048	0	0										0	1	0	0	0	0	0	0	0
2	0	051	0	0	0	0	0	1	0	1	0	0	0	0	1	0	1	0	0	0	1	0
2	0	066	0	1	0	0	0	1	1	1	0	1	0	1	1	0	1	1	1	0	1	0
2	0	093	0	0	1	0	0	0	0	1	1	1	1	0	1	0	1	0	0	0	1	0
2	0	126	1	1	0	0	0	1	0	1	0	1	0	0	1	0	1	0	0	0	0	0
2	0	135			0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0
2	0	270	1	0	0	0	0	1	1	1	0	1	0	1	1	1	1	0	1	1	1	0
2	0	441	1	0	0	0	0	1	1	1	0	1	0	0	1	1	1	0	0	0	1	0
2	0	453	1	0	0	0	0	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0
2	0	507	0	0	1		0	1	1	0	0	1	0	0	1	0	1	0	0	0	1	0
2	0	576	0	0	0	0	0	1	1	1	1	1	0	1	1	0	1	0	1	1	1	0
2	0	582	0		0	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	1	0
2	0	627			0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	0	0	0
2	0	XXX	0	0	1		1	1	1	0	0	0	0	1	1	0	0	0	0	1	0	0
2	0	XXX			1	0	1	1	1	1	0	1	0	0	1	0	1	0	0	0	0	0
T:			4	2	4	0	2	14	11	10	3	12	1	5	16	3	14	1	4	4	9	0
3	0	075	1	0	0	0	0	1	1	1	0	1	0	0	1	0	1	0	0	1	1	0
3	0	099	0	0	0	0	0	1	1	0	0	0	0	1	0	0	1	0	0	1	0	0
3	0	153	0	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0
3	0	225	0	0			0	1	0	0	0	1	0	1	1	0	1	0	0	1	1	0
3	0	246																				
3	0	285	0	0	0	0	0	1	0	0	1	0	0	1	1	0	0	0	1	1	1	0
3	0	327	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0
3	0	405	1	0	0	0	0	1	1	0	1	1	0	1	1	0	1	0	1	0	1	0
3	0	516																				
3	0	579	1	0	1		1	1	1	1	1	1	1	1	1	0	0	0	1	1	1	0
3	0	687	0	0	1	1	1	1	1	1	0	1	0	0	1	0	1	0	0	0	1	0
3	0	XXX																				
T:			3	0	2	1	2	9	6	3	3	5	1	6	7	0	5	0	3	6	7	0
4	0	081	0	0	0	1	1	1	1	1	0	0	0	0	1	0	1	0	0	1	0	0
4	0	273	0	0	1	0	0	1	1	0	0	1	0	1	1	0	0	0	1	0	0	0
4	0	282	0	0	1		0	1	1	1	0	1	1	1	1	0	1	0	1	1	1	0
4	0	369	1	0			0	1	0	0	0	1	0	0	1	0	0	0	0	1	0	0
4	0	447	0	0	0	0	1	1	1	1	0	1	1	0	1	1	0	0	0	0	0	0
4	0	XXX					0	1	1	0	0	0	0	1	1	0	1	0	0	0	1	0

LIB SUB TYP	SPE SUB TYP	LIB NUM BER	F1	G1	H1	H2	I1	I2	I3	I4	I5	I6	I7	J1	J2	J3	J4	J5	J6	J7	J8	J9
T:			1	0	2	1	2	6	5	3	0	4	2	3	6	1	3	0	2	3	2	0
5	0	063	0		1	0	1	0	1	1	1	1	0	0	1	0	1	1	0	1	1	0
5	0	192	0	0			1	1	1	1	1	1	0	0	1	0	1	1	0	0	1	0
5	0	222	0			1	0	1	0	0	1	1	0	0	1	0	1	0	0	0	0	0
5	0	417	0	0			0	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0
5	0	450	0	0	1		0	1	1	0	1	0	0	0	1	0	1	1	0	0	1	0
5	0	495	0	0			0	1	1	1	1	1	0	0	1	0	1	1	0	0	0	0
5	0	696	0	0	0	0	0	1	1	1	0	0	0	0	1	0	1	0	0	0	0	0
5	0	XXX	0	0	0	0	0	1	1	1	0	1	0	0	1	0	1	1	0	0	0	0
5	0	XXX	0	0			0	1	1	0	1	0	0	1	0	1	1	1	0	0	1	0
5	0	XXX	0	0	0	0	0	0	0	1	0	1	1	0	1	0	0	0	0	1	0	0
T:			0	0	2	1	2	8	7	6	6	6	1	1	9	1	8	7	0	2	4	0
7	1	030																				
7	1	159	1	0	1		1	1	1	1	0	0	0	1	1	0	1	0	0	0	1	0
7	1	198	0	0	0	0	1	1	1	0	0	1	0	0	1	0	0	0	1	1	0	0
7	1	312	1	1	0	0	0	1	1	0	0	1	0	0	1	0	1	0	0	1	1	0
7	1	333	0	0			0	1	0	0	0	1	0	0	1	1	1	0	1	0	1	0
7	1	372	1	0	0	0	1	1	1	1	0	1	0	0	1	0	0	1	0	0	1	0
7	1	426					1	1	1	0	0	0	1	0	1	0	0	0	0	0	1	0
7	1	468	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	1	1	1
7	1	504	0	0		1	0	1	1	0	0	1	1	1	1	0	1	0	1	1	1	0
7	1	612																				
7	1	615																				
7	1	624	0	1	1	1	0	1	1	1	1	1	0	1	1	1	1	1	1	1	1	0
7	1	639	0	0	0	0	0	1	1	1	1	1	0	0	1	1	1	0	0	0	1	0
7	1	XXX																				
7	1	XXX	1	1	0	0	0	1	1	0	0	0	0	0	1	0	0	0	0	1	1	0
7	2	354	0	0	1	1	0	1	1	1	0	0	0	1	1	0	1	0	0	1	1	0
7	2	XXX	0	0	0		0	0	0	0	0	0	1	1	1	1	1	0	0	1	1	0
7	3	057	0	0	0	0	0	1	1	0	1	1	0	0	1	0	1	0	1	1	1	0
7	3	108	0	0	1	0	1	1	1	0	0	1	0	1	1	0	1	0	1	1	1	0
7	3	228	0	0	0	0	0	1	1	0	0	1	1	0	1	0	0	0	0	1	0	0
7	3	324	1	1			0	1	1	1	0	1	0	1	1	1	1	1	1	1	1	0
7	3	XXX	0	0	0	0	1	1	0	0	0	1	0	1	1	0	1	0	1	1	1	0
7	3	XXX	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	1	0	0
7	4	144	0	1	1		0	0	0	1	1	0	0	0	1	0	1	0	1	1	1	0
7	4	216	0	0	0	0	1	1	0	0	0	0	0	0	1	0	1	0	0	1	1	0
7	4	357																				
7	4	378	0	0	0	0	0	1	1	1	0	1	0	1	1	0	1	0	0	1	1	0
7	4	480																				
7	4	498	1	0	1	1	0	1	1	1	0	1	0	0	1	0	1	0	0	1	1	0
7	4	501	0	0	1		0	1	0	0	0	0	0	0	0	0	1	0	0	1	1	0
7	4	666	0	0	1	1	0	1	1	1	0	1	1	1	1	0	1	0	0	1	1	0
7	6	264																				
7	6	294																				
7	6	XXX	0	0	0	0	0	1	0	0	0	1	0	1	1	0	0	0	0	1	0	0
7	7	528	0	0	0	0	0	1	0	0	0	0	0	1	1	1	0	1	0	1	1	0
7	7	531	0	0	0	0	0	1	1	0	0	0	0	1	1	0	0	1	1	1	1	0

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE III.FJ: COOPERATION, COST STUDIES, AUTO. REASONS, SOURCE OF EXPERTISE
June 6, 1989, Page 3

LIB SUB TYP	SPE SUB TYP	LIB NUM BER	F1	G1	H1	H2	I1	I2	I3	I4	I5	I6	I7	J1	J2	J3	J4	J5	J6	J7	J8	J9
7	7	546	0	0	0	0	0	1	0	1	0	0	0	0	1	1	1	1	0	1	1	0
7	7	594	0	0	1	0	1	1	0	1	0	0	0	1	1	0	1	0	0	1	1	0
7	7	597	0	0			1	1	1	1	0	1	0	1	1	0	1	1	0	0	1	0
7	7	648	0	1	1	0	0	1	1	0	0	1	0	1	1	0	0	0	1	1	1	0
7	7	XXX	1	0	1	1	1	1	1	0	0	1	0	0	1	0	1	1	0	1	1	0
7	9	114	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	1	1	0
7	9	429	0	0	0	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	0	0
7	9	459	0	0	0	0	0	1	0	0	0	1	0	0	1	0	0	0	1	1	1	0
7	9	705	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0
T:			7	6	11	6	11	34	23	15	4	23	5	16	35	7	22	8	12	29	31	1
Total:			15	9	24	10	21	77	57	43	17	56	11	35	79	12	57	16	25	48	59	3
Count:	98																					

AUTOMATION CAPABILITIES EFFECT ON COOPERATIVE PROJECTS
Prompted new projects: Yes, 15; No, 63
Facilitated earlier projects: Yes, 9; No, 66
COST STUDIES
Before: Yes, 24; No, 45
After: Yes, 10; No, 51
REASONS FOR AUTOMATION
Reduce costs (5)
Improve efficiency (1)
Speed up service (2)
Permit access to holdings data from outside library (4)
Suggestions from library's governing authority (6)
Increase ways to locate information (3)
Other (7)
SOURCE OF STAFF AUTOMATION EXPERTISE
Formal coursework (5)
On-the-job training (1)
Audio-visual tutorials (8)
Seminars/workshops by networks (3)
Seminars/workshops by gov't agencies (7)
Seminars/workshops by other agencies (6)
Staff members' personal experience (4)
Reading/informal study (2)
Other (9)

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE IV.AC: ONLINE CATALOGING RECORDS
June 6, 1989, Page 1

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	LIB NUM BER	A1	A2	A3	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	C1	C2	C3
Academic	1	0	660	1	0	0	1	1	1	1	1	0	1	0	1	0	0	0	0	0	1
Academic	1	0	657	1	0	0	1	1	1	1	1	0	1	1	0	1	0	0	0	0	1
Academic	1	0	351	1	0	0	1	1	1	1	1	0	1	1	1	0	0	0	0	0	1
Academic	1	0	684	1	0	0	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1
	T:			4	0	0	4	4	4	4	4	1	4	3	3	2	1	1	0	0	4
Academic	2	0	036	1	0	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	1
	T:			1	0	0	1	1	0	1	0	0	1	1	0	0	0	0	0	0	1
Academic	3	0	075	1	0	0	1	1	0	1	0	0	1	0	0	0	0	0	0	0	1
Academic	3	0	405	1	0	0	1	1	1	1	0	1	0	1	1	0	1	0	0	0	1
Academic	3	0	687	1	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	1
	T:			3	0	0	3	3	1	3	1	1	1	1	1	0	1	0	0	0	3
Total:				8	0	0	8	8	5	8	5	2	6	5	4	2	2	1	0	0	8
Public	4	0	273	1	0	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	1
	T:			1	0	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	1
Total:				1	0	1	1	1	1	1	0	0	1	0	0	1	1	0	0	0	1
Special	7	3	324	1	0	0	1	1	1	1	0	0	0	1	0	0	1	0	0	0	1
Special	7	7	531	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Special	7	9	429	0	0	1	1	1	1	0	0	1	0	0	0	1	0	0	0	1	0
	T:			1	1	1	2	2	2	2	0	1	0	1	0	1	1	0	0	1	2
Total:				1	1	1	2	2	2	2	0	1	0	1	0	1	1	0	0	1	2
Total:				10	1	2	11	11	8	11	5	3	7	6	4	4	4	1	0	1	11
Count:	12	12																			

CATALOGING RECORDS
- Full MARC
- Partial MARC
- Non-MARC

TYPES OF RECORDS IN ONLINE CATALOG
- Monographs
- Serials (non-periodical)
- Serials (periodical)
- Audio-visuals
- Gov't documents (selected titles)
- Gov't documents (all titles)
- Music
- Computer files
- Archives, manuscripts
- Major microform sets
- Order/in process records
- Other

% CATALOGING RECORDS MACHINE-READABLE
- 0 - 33%
- 34 - 66%
- 67 - 100%

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE IV.DE: ONLINE CATALOG CAPABILITIES & FEATURES
June 6, 1989, Page 1

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	LIB NUM BER	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	D11	D12	E1	E2	E3	E4	E5	E6	E7
Academic	1	0	660	1	1	1	1	1	1	1	1	1	1	1	0	0	1	1	0	0	1	0
Academic	1	0	657	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1
Academic	1	0	351	1	1	1	1	1	1	1	1	0	1	0	0	0	0	1	0	0	0	0
Academic	1	0	684	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	1
	T:			4	4	4	4	4	4	4	4	3	4	2	2	2	3	4	1	2	2	2
Academic	2	0	036	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0
	T:			1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	0	1	1	0
Academic	3	0	075	1	1	1	0	0	1	0	1	1	1	1	0	1	0	0	0	0	1	0
Academic	3	0	405	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1	0
Academic	3	0	687	1	1	1	1	0	0	0	1	1	1	1	0	0	0	0	0	0	1	0
	T:			3	3	3	2	1	2	1	3	3	3	3	1	2	1	1	0	1	3	0
Total:				8	8	8	7	6	7	6	8	7	8	6	3	5	4	5	1	4	6	2
Public	4	0	273	1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0
	T:			1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0
Total:				1	1	1	1	1	1	1	1	1	1	1	0	1	0	0	1	1	0	0
Special	7	3	324	1	1	1	1	1	1	1	1	1	1	0	1	1	1	1	0	1	1	0
Special	7	7	531	1	1	1	0	0	0	1	0	0	0	0	1	1	0	0	0	1	0	0
Special	7	9	429	1	1	0	1	0	0	1	1	0	0	1	0	0	0	1	0	1	1	0
	T:			3	3	2	2	1	1	3	2	1	1	1	2	2	1	2	0	3	2	0
Total:				3	3	2	2	1	1	3	2	1	1	1	2	2	1	2	0	3	2	0
Total:				12	12	11	10	8	9	10	11	9	10	8	5	8	5	7	2	8	8	2
Count:	12																					

ONLINE CATALOG RETRIEVAL CAPABILITIES
Author index
Title index
Subject index
ISBN/ISSN index
LCCN index
Uniform title index
Call number index
Boolean logic
Keyword
Series index
Browse index
Other

ONLINE CATALOG FEATURES
Authority control
Network access
Dial-up access
Auto.verif.of incoming name/subj. entries
Global change capability
Printers for public use
Other

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE IV.F6I: ONLINE CATALOG BACKUP, DOWN-TIME, TECH. SERV. REORGANIZATION
June 6, 1989, Page 1

LIBRARY TYPE	LIB SUB TYP	SPE SUB TYP	LIB NUM BER	F1	F2	F3	F4	F5	F6	F7	F8	G1	G2	G3	G4	I1	I2	I3	I4	I5	I6	I7	I8	I9
Academic	1	0	660	0	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0
Academic	1	0	657	0	0	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	1	1
Academic	1	0	351	0	1	0	0	1	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	0
Academic	1	0	684	0	1	0	1	1	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	1
	T:			0	3	0	1	4	0	0	1	2	1	1	0	2	2	0	0	0	1	1	1	2
Academic	2	0	036	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
	T:			0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Academic	3	0	075	1	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Academic	3	0	405	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0
Academic	3	0	687	0	0	1	0	0	0	0	0					0	0	0	0	0	1	0	0	0
	T:			1	1	2	0	0	0	0	1	2	0	0	0	0	0	0	0	0	3	0	0	0
Total:				1	5	2	1	4	0	0	2	5	1	1	0	3	2	0	0	0	4	1	1	2
Public	M	0	273	0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
	T:			0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Total:				0	0	0	1	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Special	7	3	324	0	1	0	0	1	1	0	1	1	0	0	0	1	0	0	1	0	0	1	0	0
Special	7	7	531	0	1	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0
Special	7	9	429	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0
	T:			0	2	0	0	2	1	0	1	2	1	0	0	1	1	0	1	0	1	2	0	0
Total:				0	2	0	0	2	1	0	1	2	1	0	0	1	1	0	1	0	1	2	0	0
Total:				1	7	2	2	6	1	0	3	8	2	1	0	5	3	0	1	0	5	3	1	2
Count:	12																							

ONLINE CATALOG BACK-UP
- CD-ROM
- Shelf list
- Card catalog, fully maintained
- Card catalog, partially maintained
- Card catalog, closed
- COM catalog
- COM register/index
- Other

% TIME ONLINE CATALOG IS DOWN
- 0 - 2%
- 2 - 5%
- 6 - 10%
- Greater than 10%

REORGANIZATION OF TECHNICAL SERVICES
- Staff reassigned to other tasks/depts.
- New dept. created for systems/automation
- New dept. created for "copy" cataloging
- More departments
- Fewer departments
- No significant changes
- More employees
- Fewer employees
- Other

AUTOMATION OF TECHNICAL SERVICE FUNCTIONS IN TENNESSEE LIBRARIES, 1988/89
TABLE IV.H: ONLINE CATALOG SERVICE INTERRUPTION CAUSES
June 6, 1989, Page 1

LIBRARY TYPE	LIBRARY SUBTYPE	SPECIAL SUBTYPE	LIBRARY NUMBER	H1 HARDWARE FAILURE	H2 SOFTWARE FAILURE	H3 SYSTEM MAINTCE	H4 ENVIRON CONDITNS	H5 STAFFING PROBLEMS	H6 OTHER CAUSES
Academic	1	0	660	1	0	3	2	0	0
Academic	1	0	657	4		1	3		2
Academic	1	0	351	4	1	3	2	0	0
Academic	1	0	684	4	3			2	1
Academic	2	0	036				1		
Academic	3	0	075	1	0	0	0	0	0
Academic	3	0	405	1	2	0	0	0	0
Academic	3	0	687						
Public	4	0	273	0	3	1	2	0	0
Special	7	3	324	1	4	2	3		
Special	7	7	531		1	2	3		
Special	7	9	429	2	1				

Count: 12

CAUSES OF ONLINE CATALOG SERVICE INTERRUPTIONS
All applicable ranked 1 (most) - 6 (least)

	Hardware failure	Software failure	System maintenance	Environmental conditions	Staffing problems	Other
	1=4	1=3	1=2	1=1	1=0	1=1
	2=1	2=1	2=2	2=3	2=1	2=1
	3=0	3=2	3=2	3=3	3=0	3=0
	4=3	4=1	4=0	4=0	4=0	4=0

Weighted: 1st = 4; 2nd = 3; 3rd = 2; 4th = 1

1=16	1=12	1=8	1=4	1=0	1=4
2= 3	2= 3	2=6	2=9	2=3	2=3
3= 0	3= 4	3=4	3=6	3=0	3=0
4= 3	4= 1	4=0	4=0	4=0	4=0
22	20	18	19	3	7

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